User Manual

Model: FI8601/FI8601W

IP Wired / Wireless Camera

NIGHT VISION & REMOTE

TWO WAY AUDIO

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1 WELCOME

IPCAM is an integrated wireless IP Camera solution. It combines a high quality digital video camera with network connectivity and a powerful web server on your desktop from anywhere on your local network or over the internet.
The basic function of IPCAM is transmitting remote video on the IP network. The high quality video image can be transmitted with 30fps/25fps speed on the LAN/WAN by using H.264 hardware compression technology.
The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration, start-up and to upgrade the firmware.
You can use this IPCAM to monitor special places such as supermarket, bank and school. Also controlling the IPCAM and managing image are simple by clicking the website through the network.

1.1 Features

- Adopts high performance and powerful media processor ,built-in (ARM+DSP) and high speed video protocol processor
- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- Provides RS485, various decoder protocols can be built in
- Network self-adapting function: adjust stream and encoding frame rate automatically according to network bandwidth
- Supports IE/Firefox/Google/Safari browser or any other standard browsers
- Supports mobile watch
- Supports WEP,WPA and WPA2 Encryption
- IR night vision (Range:30m)

- Supports dual-stream
- Supports remote viewing & record from anywhere anytime
- Multi-level users management with password protection
- Embedded Web Server for users to visit by IE
- Motion detection alert via email or upload image to FTP
- Time is not lost after power failure, and support NTP
- Supporting Dynamic IP (DDNS) and UPnP LAN and Internet
- Supports RTSP
- Supports multiple network protocols: HTTP /TCP /IP /UDP /FTP /DHCP /DDNS / UPNP /RTSP

1.2 Packing List

Untie the package and verify the items with the following list:

- IPCAM×1
- Wi-Fi Antenna×1 (only available for wireless model)
- DC Power Supply×1
- Network Cable×1
- Quick Installation Guide×1
- CD×1（Includes IPCAM user manual、IP camera tool、H.264 Camera Client）
- Mounting bracket×1(option)
- Warranty Card×1

NOTE: Please Contact us immediately in case of any damaged or missing parts.

1.3 Product views

1.3.1 Front View

Figure 1.1

1 Induction IC

2 Infrared LED: 36 IR LEDs

3 LENS: CMOS sensor with fixed focus lens

4 WIFI Antenna: Wireless Antenna

1.3.2 Interface

Figure 1.2

1）Power Interface: Connect the external power adapter, request for 12V/2A power.

2）485 Cradle head interface: Support the standard 485 cradle head protocol. You can control cradle head if it has been connected well with the camera.

3）Audio output interface: The jack is used to plug external speakers.

4）Reset button： Press and hold on the reset button for 10 seconds. Releasing the reset button, the password will back to the factory default administrator password. The default administrator password is admin. You must power on the camera before reset.

Note: You'd better unplug the network cable before pressing the reset button. Or else you may reset failed when others login the camera and open the living video. If you want to know whether others have opened the video, please check the "Device Information" (Figure 1.3). If the Current Client shows zero, you can reset without unplugging the network cable, or else you had better unplug the network cable and then reset.

Device Information	
Device ID:	IPCAM
Device Type:	C1F0S2Z3N0P0L0
Network Connection:	LAN
Current Client:	0
Device Firmware Version:	V3.2.2.2.1-20111115
Device Embeded Web UI Version:	2.5.01.2
Mac Address:	00:01:89:11:11:05
IP Address:	192.168.11.147
Subnet Mask:	255.255.255.0
Gateway:	192.168.11.1
Primary DNS:	192.168.11.1
Secondary DNS:	
Start Time:	2000-1-10 12:9:1

Figure 1.3

5）LAN: 10/100M adaptive Ethernet interface. Through this interface, IPCAM can be connected with various network devices, such as hub, router, etc.

6）Audio input interface: The jack is used to plug external microphone or linear audio input signal .The audio input mode is decided by which kind of audio input device you use. You had better configure it first.(Please see chapter 3.15 about How to configure it)

1.4 Preparations before use

1.4.1 Software installation

(1) Put the CD in the CD drive of your computer. Open the CD; find the software per instructions;
(2) Double click **IPCamSetup.exe** and install the software per instruction.

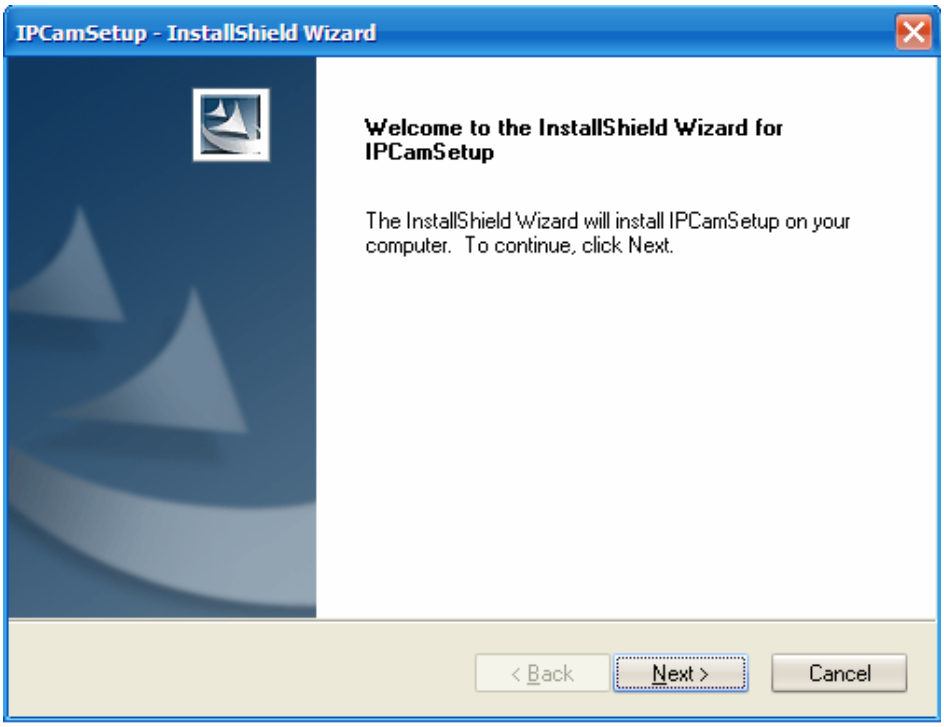
IPCamSetup - InstallShield Wizard
Welcome to the InstallShield Wizard for IPCamSetup
The InstallShield Wizard will install IPCamSetup on your computer. To continue, click Next.
< Back
Next >
Cancel

Figure 1.4

(3) Click **Next** to complete the software installation.

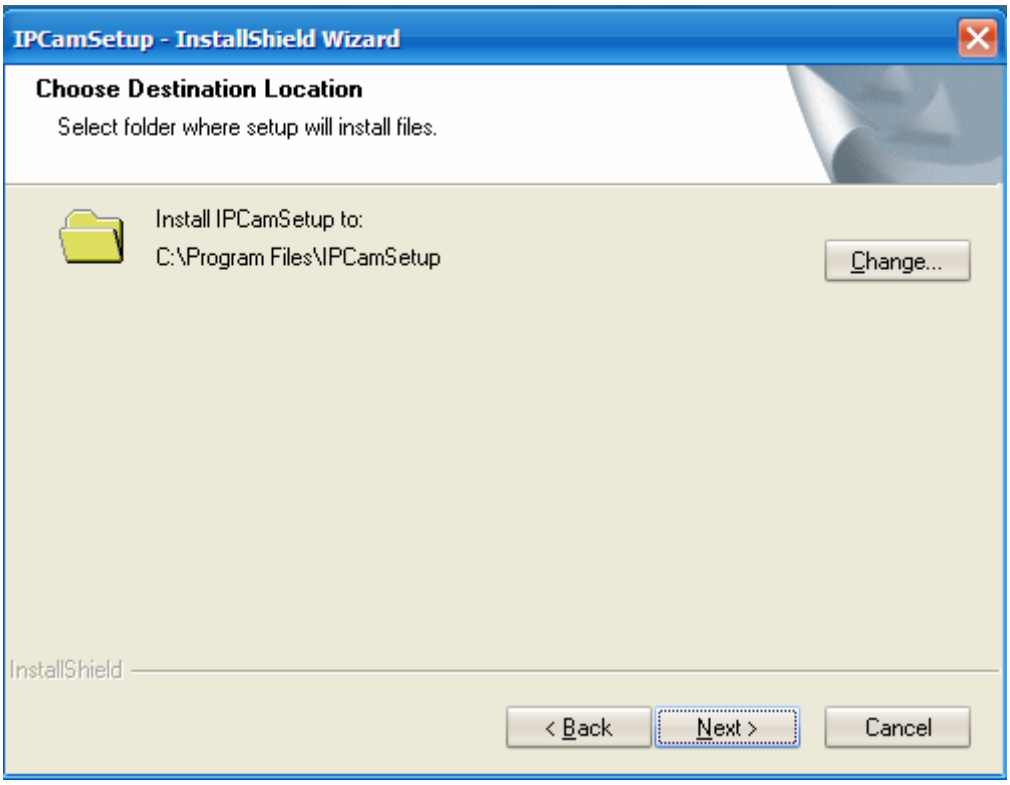

Figure 1.5

(4) Select the folder where setup will install then click Next.

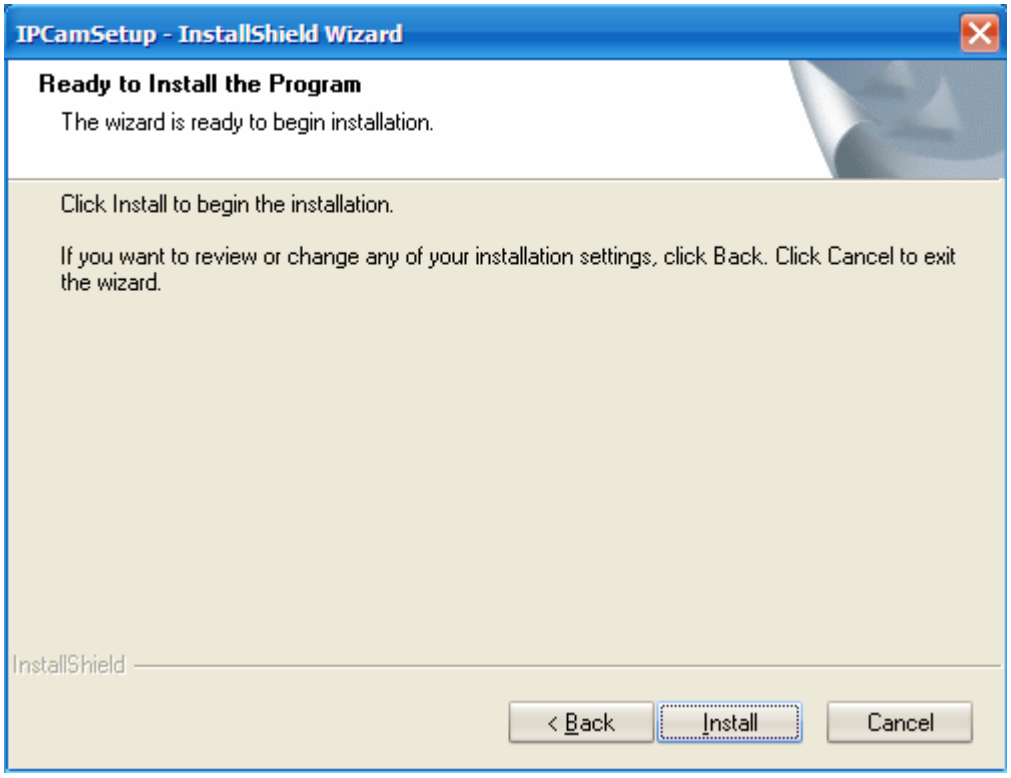
IPCamSetup - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Figure 1.6

(5) Click Install.

An icon

appears on the desktop automatically.

NOTE: If you use Windows7 and could not find the icon on desktop after installing the IP camera tool, please check if the path of the camera software is correct.

For example, if it was pointing to C:\Windows\System32\IPCamera.exe.
Then fix this by pointing the shortcut to the correct path C:\Windows\SysWOW64\IPCamera.exe.
The shortcut should work without any problems.

CAUTION: Before installing and using the product, please read the following precautions carefully and make sure they are fully understood.
Use only the power adapter attached with the product. Using unauthorized power adapters may cause damage to your IP Camera.

1.4.2 Hardware preparation

Follow the steps below to set up your camera hardware connections. Make sure to follow each step carefully to ensure that the camera operates properly.
(1) Adjust the antenna at the back of the camera.
(2) Plug the network cable into the camera and then into your Cable/DSL router.
(3) Plug the power adapter into the camera and then into the power outlet.
CAUTION: Make sure to only use the power adapter supplied with IPCAM. Using a non-approved power adapter may damage the camera.
(4) The camera takes approximately 10 seconds to start up before it displays an IP address on the **IP Camera Tool** (details: 2.1)
(5) When the camera is powered and network cable plugged correctly, the network light near the network jack will turn on.

2 SOFTWARE OPERATION

2.1 IP Camera Tool

When the Device has been mounted properly, you can double click the icon “IP Camera.exe”

and a dialog box as Figure 2.1 will pop up.

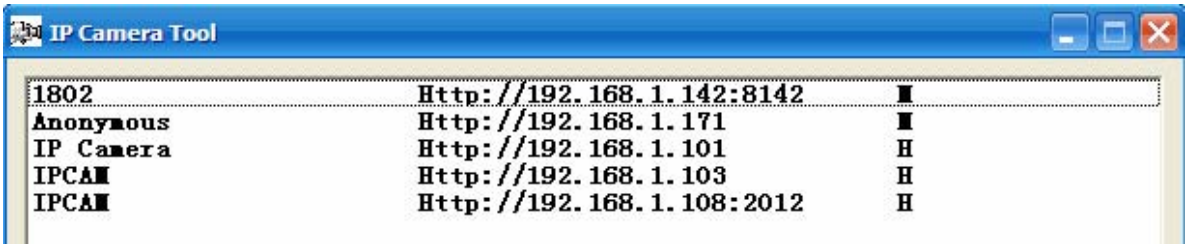

Figure 2.1

The software searches for the IPcam automatically over the LAN.
Our company has two series: H.264 and MJPEG. M shows that the camera belongs to MJPEG series. H shows that the camera belongs to H.264 series. FI8601W belongs to H.264 series.

There are 3 cases:
(1) If no Camera found in LAN. After about 1 minute of searching, the Result Field will show "not found IP Server" and the program shuts off automatically.
(2) If IP Cameras have been found within LAN. All the IP Cameras will be listed and the total number is displayed in the result field as shown in Figure 2.1.
(3) The IP Cameras installed within LAN do not share the same subnet with the monitoring PC. A prompt is displayed with a "**Subnet doesn't match, dbclick to change!**" message. Click the left mouse button to choose the prompt and click the right mouse, choose **Network Configuration** to set the IP address of the Camera to the same subnet as the LAN. (Figure 2.5) You can choose obtain IP from DHCP server or set a static IP for the camera. (Figure 2.4)

NOTE: If you could not find the camera's IP on the IP camera tool.
Please check if DHCP is enabled on your router, or disable MAC address filter.
Make sure that the firewall doesn't block the camera.

Six Options
Choose the IP Camera list and right click; there are six options, Basic Properties, Network Configuration, Upgrade Firmware, Refresh Camera List, Flush Arp Buffer and About IP Camera Tool as shown Figure 2.2.

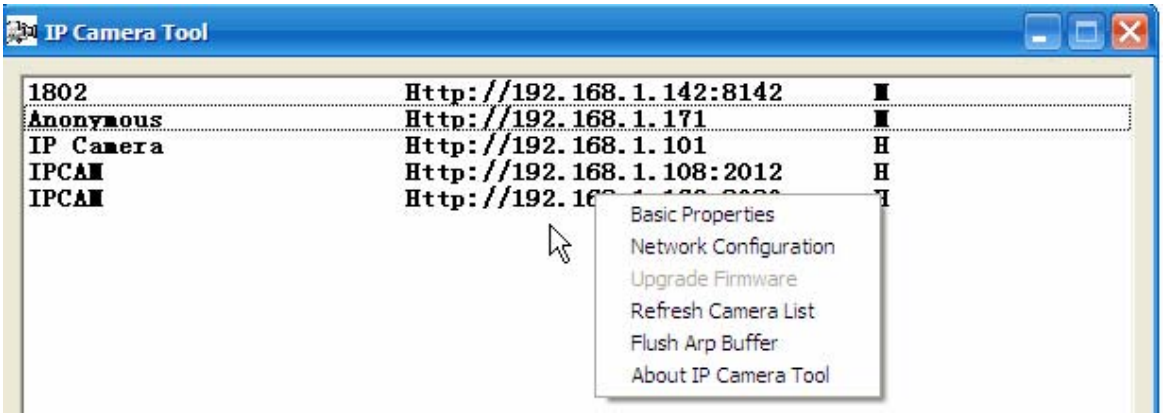

Figure 2.2

- **Basic Properties**

There are some devices information in the Basic Properties, such as **Device ID, System Firmware Version,** and **Web UI Version.** (Figure 2.3)

If there are several cameras on the list, you can choose basic properties to check the device ID and recognize the IP address, belong to which camera you set up, For example Device ID is 00606E8C5058, the same MAC ID sticker is found at the bottom/back of the camera.

Each camera has its own MAC ID. Sometimes, if camera's IP is not found on the IP Camera Tool. The firewall may be blocking it, therefore you can add this MAC ID to your router and give it a fixed IP or add the MAC ID as a trusted site.

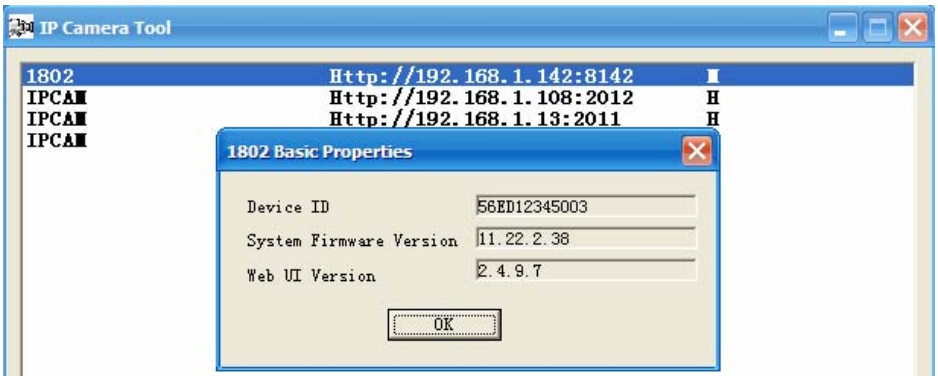

Figure 2.3a

Note: H series doesn't have Web UI Version.

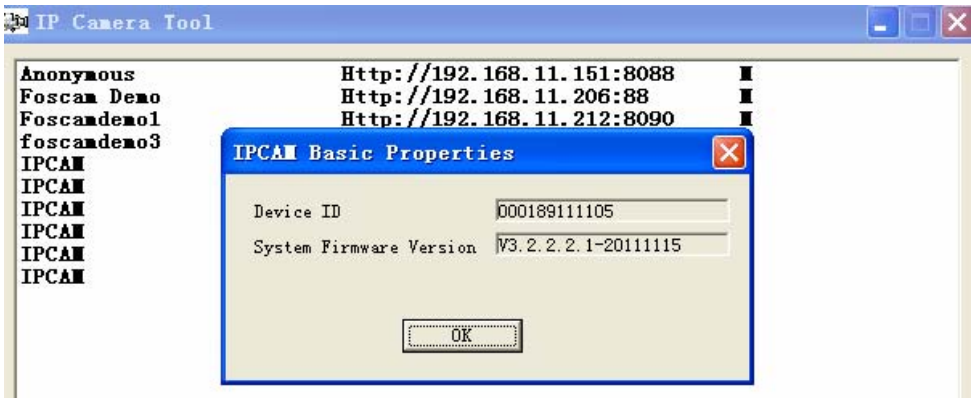

Figure 2.3b

- **Network Configuration**

This page will allow you to configure the Network parameters.

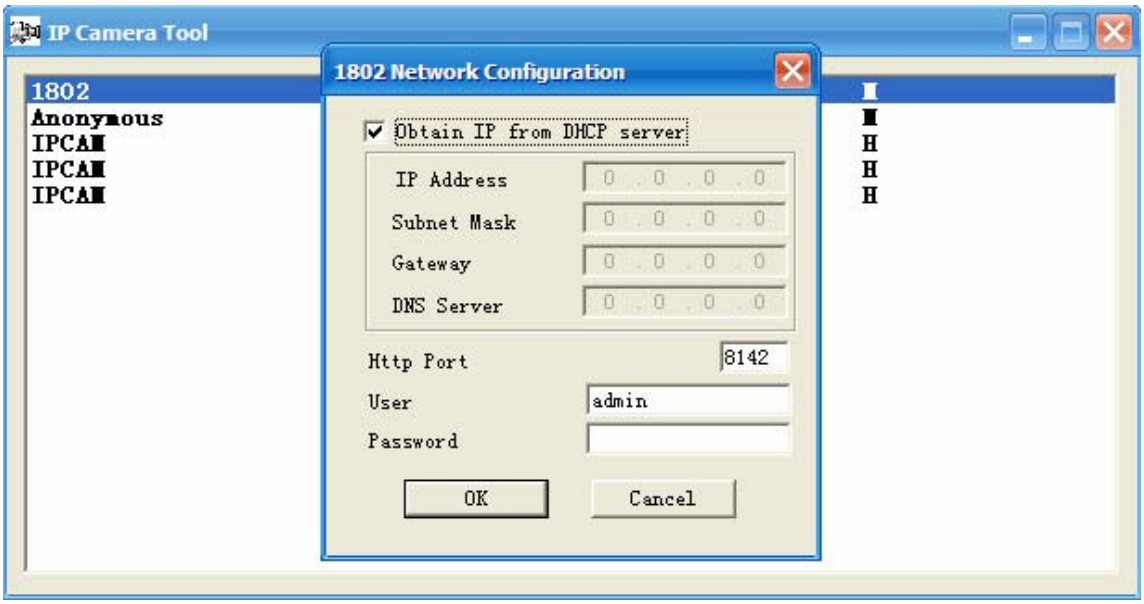

Figure 2.4

Obtain IP from DHCP server: If checked, the device will obtain IP from DHCP server. In other words, the camera will have a dynamic IP. (Make sure the Router which the camera connects has DHCP function and DHCP is enabled).H series can't obtain IP from DHCP server.

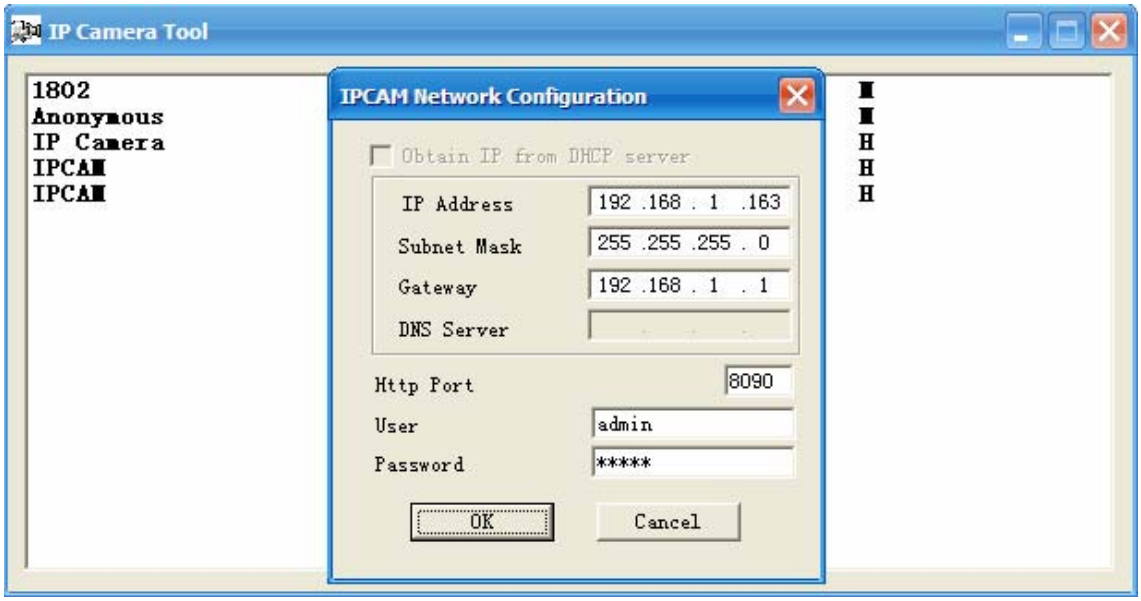

Figure 2.5

IP Address: Fill in the IP address assigned and make sure it is in the same subnet as your computer or router. (I.e. the first three sections are the same)

Subnet Mask: The default subnet mask of the equipment in our LAN is: 255.255.255.0.You can find the subnet mask in the basic information of your router or the locally-attached of your PC.

Gateway: Make sure it is in the same subnet with PC's IP address. The gateway is your router's LAN IP.

DNS Server: IP address of your ISP network provider. You can find the DNS server in your router or check the locally-attached address of your computer. Your PC contains your PC's IP address, gateway and DNS server. Normally, there are two DNS servers. Here you can also set the DNS server the same with gateway. H series can't see the option.

Http Port: The default Lan port is 80.You can set another port number, such as port 8005, 8100.etc.

H series:

User: Default administrator user name is admin

Password: Default administrator password is admin.

M series:

User: Default administrator user name is admin

Password: Default password is null, there is no password.

NOTE: If the prompt "Subnet doesn't match, dbclick to change!" appears, please enable DHCP and choose obtain IP from DHCP server or set camera's IP address and gateway once again.

- **Upgrade Firmware**

Enter the correct User and Password to upgrade system Firmware and Web UI. If you upgrade the camera, you must **upgrade system firmware** first and then **upgrade web UI**. Or it may damage the camera.

Please download the firmware package under the correct type of your camera before upgrade. Follow the upgrade documentation in the package carefully to upgrade. Read the readme.txt file first before you upgrade.

CAUTION: Please don't upgrade the firmware freely. Sometimes, your camera may be damaged

if configured wrong during the upgrade. If your camera works well with the current firmware, we recommend not upgrading.

NOTE: 1 If you download the firmware, please check if bytes of the two .bin file are exactly the same with the size in readme. If it fits, you can upgrade it. If not, please download the firmware again until the bytes are exactly the same with the official size. Otherwise, your camera will crash by the firmware which you selected.

Figure 2.6

2 You can not upgrade the firmware by IP Camera Tool for H.264 series, you can only upgrade by IE.

- **Refresh Camera List**

Refresh camera list manually.

- **Flush Arp Buffer**

When wired and wireless of the camera both are fixed IP address. You may encounter an issue with not being able to open the camera webpage. You may try to use flush Arp buffer.

- **About IP Camera Tool**

Display the version of the IP Camera Tool.

2.2 Camera Login

You can access the camera through the **IP Camera Tool** or **IE, Firefox, Google Chrome, Safari or other stand browser** directly.

(1) Double click the IP address of the IP Camera listed (Figure 2.1).The browser you use will be opened automatically and display the following page. (Figure 2.8)

(2) You can also access the camera by IE browser directly by typing in the camera's IP address (Figure 2.7). For example:

Eight reasons to choose Internet Explorer 8 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.101
Go Links
Experience a more beautiful web
United States

Figure 2.7

Figure 2.8

Camera supports three-level users management: admin, user and guest.

The default “admin” username and password are all “admin”, the default “user” username and password are all “user”, and the default “guest” username and password are all “guest”.

There are two modes to login. If you use PC to login, please choose the first mode. If you use mobile to login, please choose the second mode. (Figure 2.9)

Figure 2.9

First time you use the IPCAM, you must download the ActiveX.

If you use IE, you can download ActiveX from the login UI. If you use Firefox, Google Chrome, safari or others, you should download QuickTime Player as the ActiveX from other website.

For IE

Please click Download. Install the ActiveX after download.

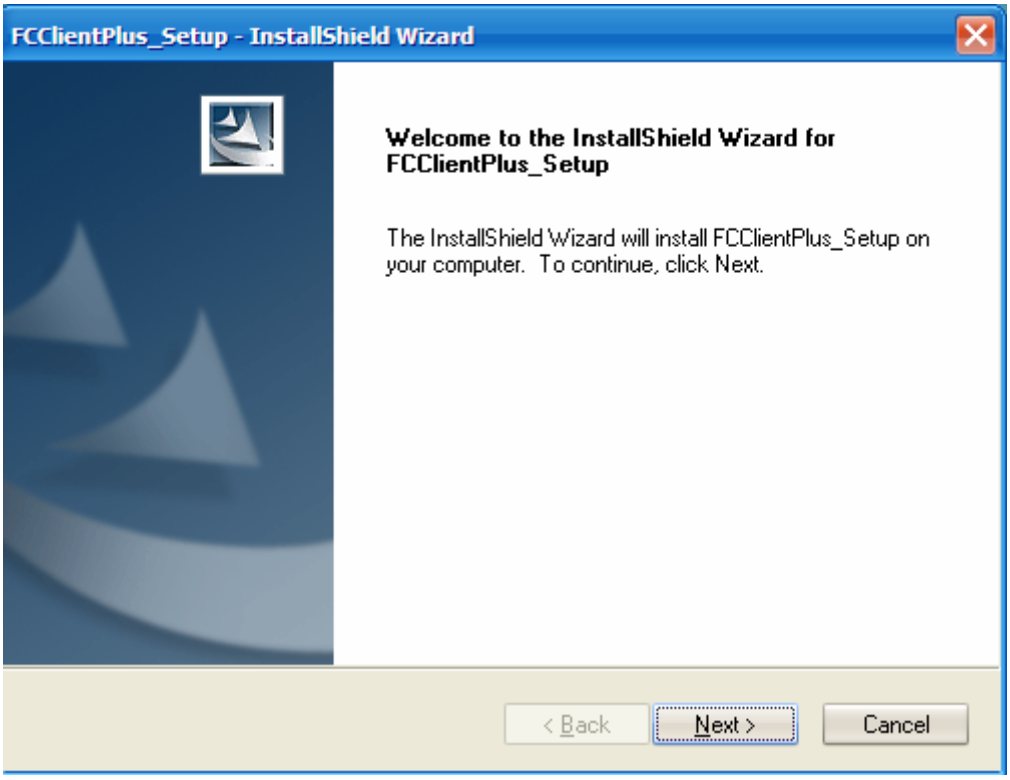
FCClientPlus_Setup - InstallShield Wizard
Welcome to the InstallShield Wizard for FCClientPlus_Setup
The InstallShield Wizard will install FCClientPlus_Setup on your computer. To continue, click Next.
< Back
Next >
Cancel

Figure 2.10

Click next.

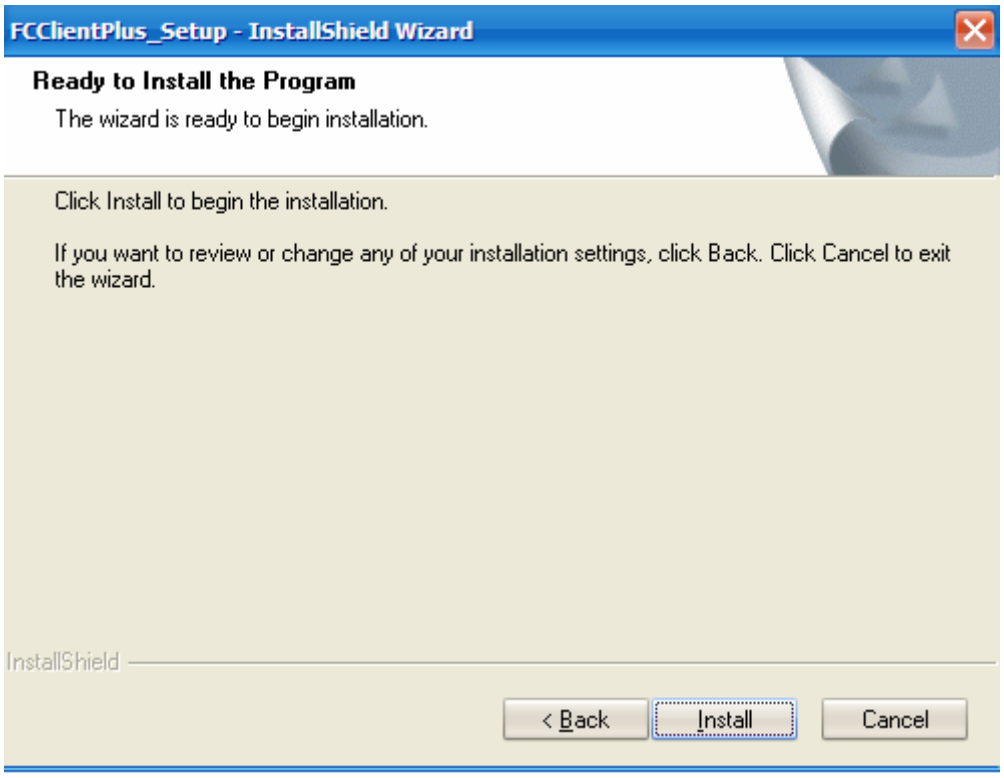
FCClientPlus_Setup - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Figure 2.11

Click Install.

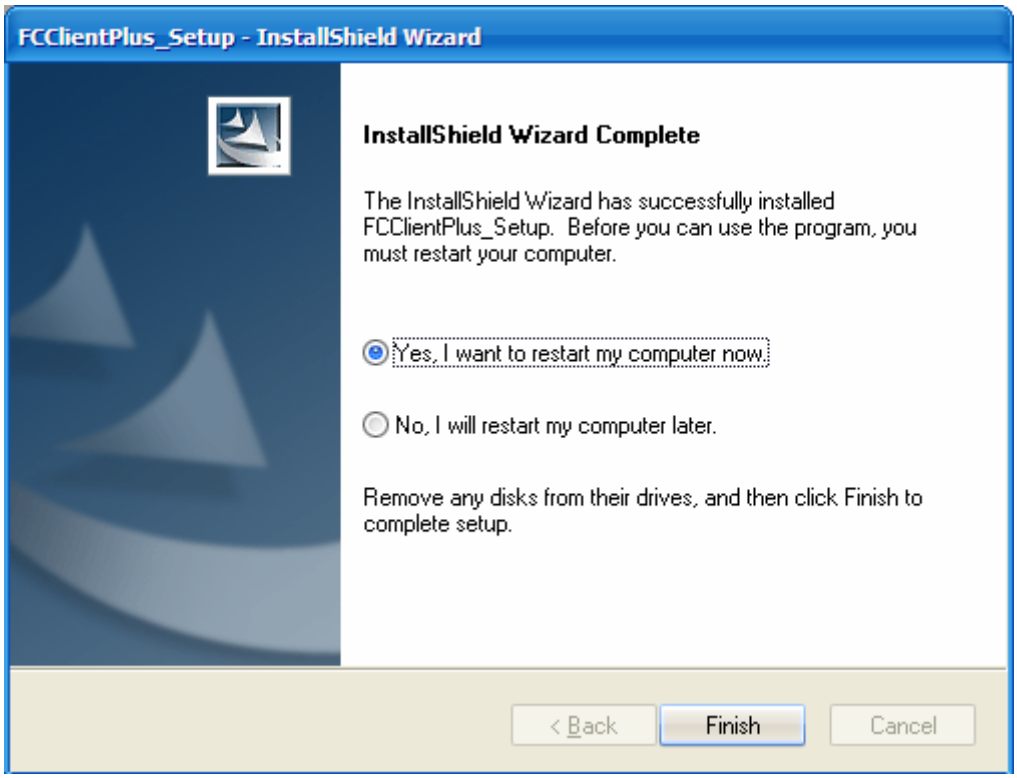
FCClientPlus_Setup - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed FCClientPlus_Setup. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Figure 2.12

Click Finish and the computer restarts upon installation completion.
The first time you login the UI. You may receive an activeX prompt as the picture below. (Figure 2.13)

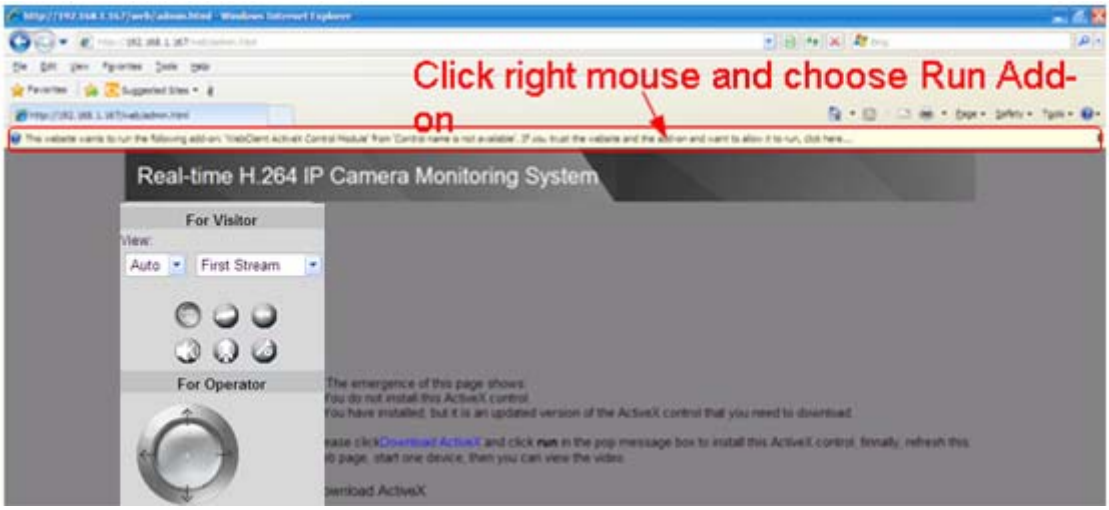

Figure 2.13

Right click on the active prompt and choose **Run Add-on**(Figure 2.14).

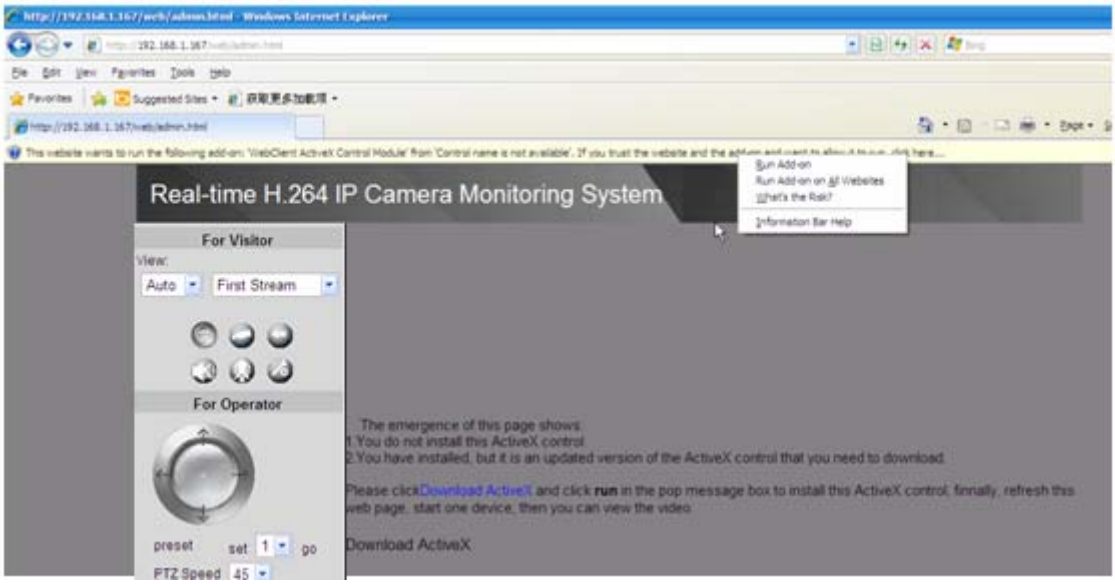
Real-time H.264 IP Camera Monitoring System
For Visitor
View:
Auto
First Stream
For Operator
preset
set
1
go
PTZ Speed
45
Run Add-on
Run Add-on on All Websites
What's the Risk?
Information Bar Help
The emergence of this page shows:
1.You do not install this ActiveX control.
2.You have installed, but it is an updated version of the ActiveX control that you need to download.
Please click Download ActiveX and click run in the pop message box to install this ActiveX control, finnally, refresh this web page, start one device, then you can view the video.
Download ActiveX

Figure 2.14

Select **Run** on the next prompt (Figure 2.15), you will see a live video. (Figure 2.16)

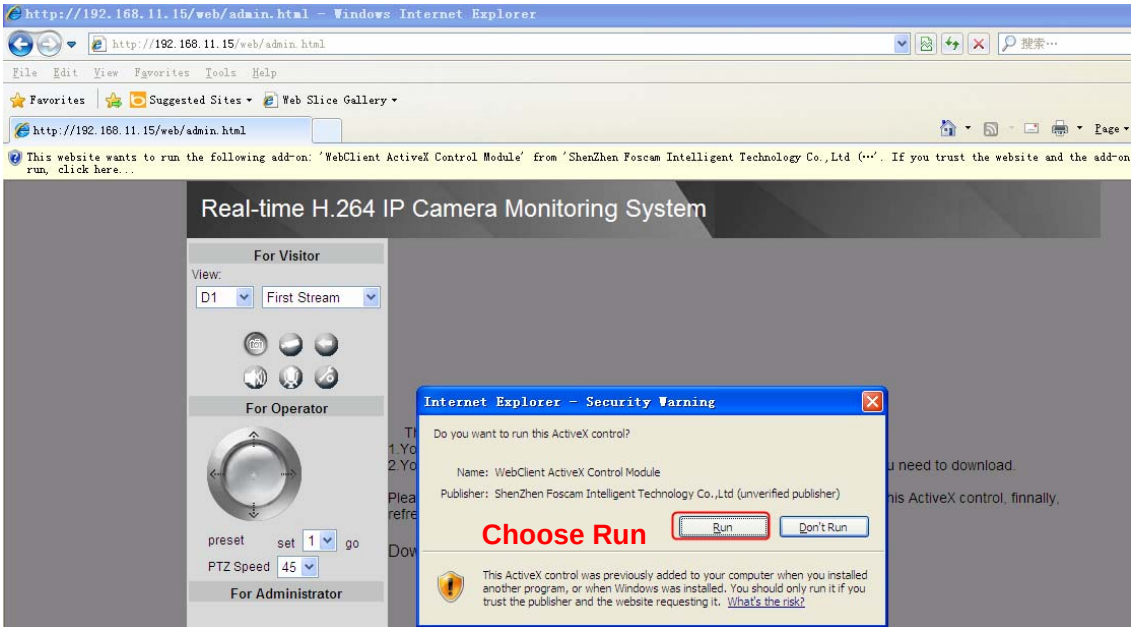
http://192.168.11.15/web/admin.html - Windows Internet Explorer
This website wants to run the following add-on: 'WebClient ActiveX Control Module' from 'ShenZhen Foscam Intelligent Technology Co.,Ltd (···'. If you trust the website and the add-on run, click here...
Real-time H.264 IP Camera Monitoring System
For Visitor
View:
D1
First Stream
For Operator
preset
set
1
go
PTZ Speed
45
For Administrator
Internet Explorer - Security Warning
Do you want to run this ActiveX control?
Name: WebClient ActiveX Control Module
Publisher: ShenZhen Foscam Intelligent Technology Co.,Ltd (unverified publisher)
Run
Don't Run
Choose Run
This ActiveX control was previously added to your computer when you installed another program, or when Windows was installed. You should only run it if you trust the publisher and the website requesting it. What's the risk?

Figure 2.15

Figure 2.16

NOTE: If you could not view living video after running the activeX, only a red cross in the center of the video or just a black screen. Please change another port number to try.
Make sure all firewall or antivirus software on your computer does not block the active download and installation. If you are unable to run the activeX control, try shutting down the firewall or antivirus program.

For Firefox, Google Chrome and Safari

Fill in user name and password then login.
It may ask you for user name and password again before login the UI.
After you enter user name and password, you will see the living video.

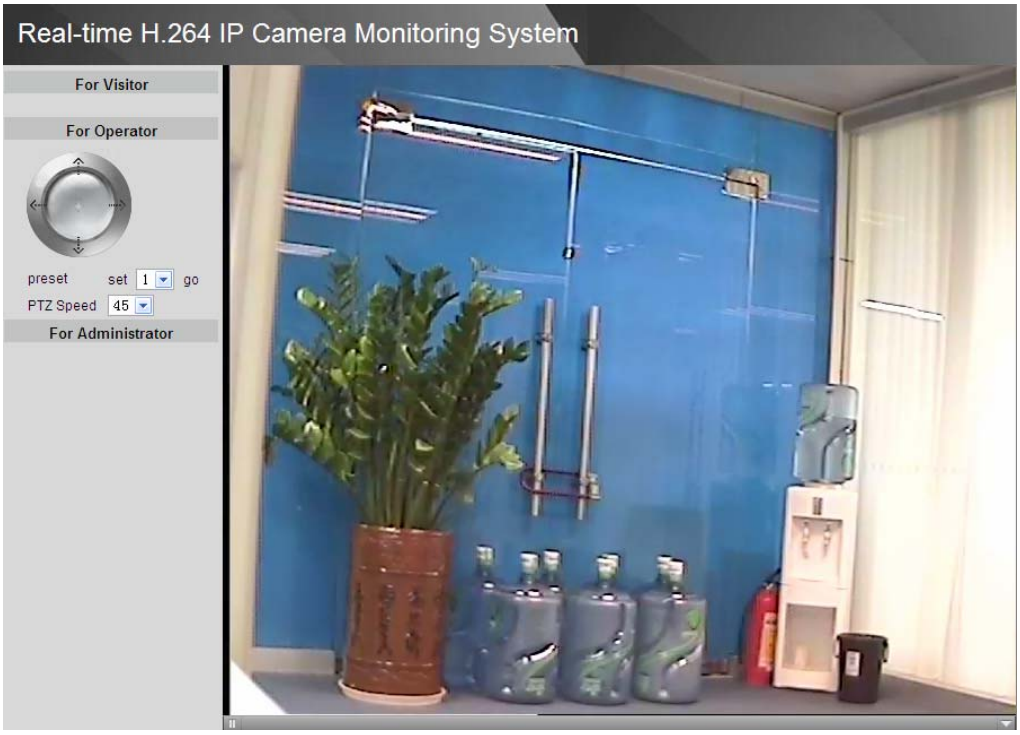

Figure 2.17

2.3 For Visitor

For IE browser

Figure 2.18

Figure 2.19

There is a status column below the view window (Figure2.19).

1) The current state of IPCAM

2) After the view has been digital amplified, click the icon, the view will be digital narrowed.

3) Click the icon, the view window will be digital amplified.

4) Click the icon, the view window will restore the original size.

View: The resolution contains D1, CIF, QCIF and Auto. You can choose First Stream or Second Stream to adjust the view window.

Note: If you use mobile login, you should choose Second stream to view.

: Click this icon, the camera will snap a picture and store it to a predetermined path.

: Click the icon. The camera will begin recording and store the recorded file to the folder you set. And the status column will display REC when recording. Click again it will stop recording.

Figure 2.20

: Click the icon, it will pop up a player. And you can see the videos you have stored.

Figure 2.21

: If the camera has connected with microphone or other line-in input signal, click this icon, you can hear the sound around the camera by the earphone or speakers that connected with PC.

: Click the icon and talk to the microphone that connected with PC. If the camera has connected with speakers or other output audio device, people around the camera can here your voice. Click the icon again, stop this function. You had better configure it first.(Please see chapter 3.15 about How to configure)

: Setting the storage path of photos and videos. The default path is D disk.

Note: Firefox, Google Chrome and Safari have not these functions because the activex does not support it.

2.4 For Operator

This camera doesn't have cradle head, so you cannot use this function. If you want to use cradle head, you must connect it with 485 cradle head interface firstly and then configure it properly (read 3.9 chapter about How to configure)

Figure 2.22

1 Click this icon, camera will rotate up

2 Click this icon, camera will rotate down

3 Click this icon, camera will rotate left

4 Click this icon, camera will rotate right

Another way to operate the cradle head:

Put the mouse at the living video, when the icon of the mouse changed, click the mouse, the cradle head will rotate up/down/left/right too (Figure 2.23).

When the icon has three arrows, the speed of the rotation is fastest. And when the icon has one arrow, the speed is lowest.

Figure 2.23

Put the mouse at the center of the living video, you will see the icon of the magnifying glass (Figure 2.24). Press the left mouse and you can use the optical zoom.

Note: The camera doesn't support this function because the lens without the optical zoom.

Figure 2.24

Preset: You can set a pre-defined location with this function. Once you have determined the viewing location, click the button “set”. This location can be retrieved by selecting the number assigned and clicking the “go” button.

PTZ Speed: Here you can set moving speed .This function can be used only when the IPCAM is a high-speed camera .It has no effect at a constant speed camera.

2.5 For Administrator

Click **For Administrator**, you will see the **Device Information.**
It contains Device ID, firmware version of the camera and other status of the camera.

Device Information	
Device ID:	IPCAM
Device Type:	C1F0S2Z3N0P0L0
Network Connection:	LAN
Current Client:	0
Device Firmware Version:	V3.2.2.2.1-20111115
Device Embeded Web UI Version:	2.5.01.2
Mac Address:	00:01:89:11:11:05
IP Address:	192.168.11.147
Subnet Mask:	255.255.255.0
Gateway:	192.168.11.1
Primary DNS:	192.168.11.1
Secondary DNS:	202.96.134.133
Start Time:	2000-1-10 12:42:25

Figure 2.25

Device ID: It displays “IPCAM”. This ID is different form the camera name. You can set any camera name you like for the camera in “For Administrator—> Video—>Parenthesis Options” and the camera name can be showed at the video window, but the device ID will always display “IPCAM”.

Current Client: It shows that how many people are viewing the video. For example, the Current Client shows 0,that means no people are looking the video. If someone have logged in the camera but do not open the video, the Current Client will not change.

3 How to configure settings in For Administrator

3.1 Date & Time Settings

There are four models for you to adjust time: Manual setting, Sync with computer time, Network Time Protocol and Keep current settings, choose one model and adjust the camera time. Then choose Time zone, such as the following picture:

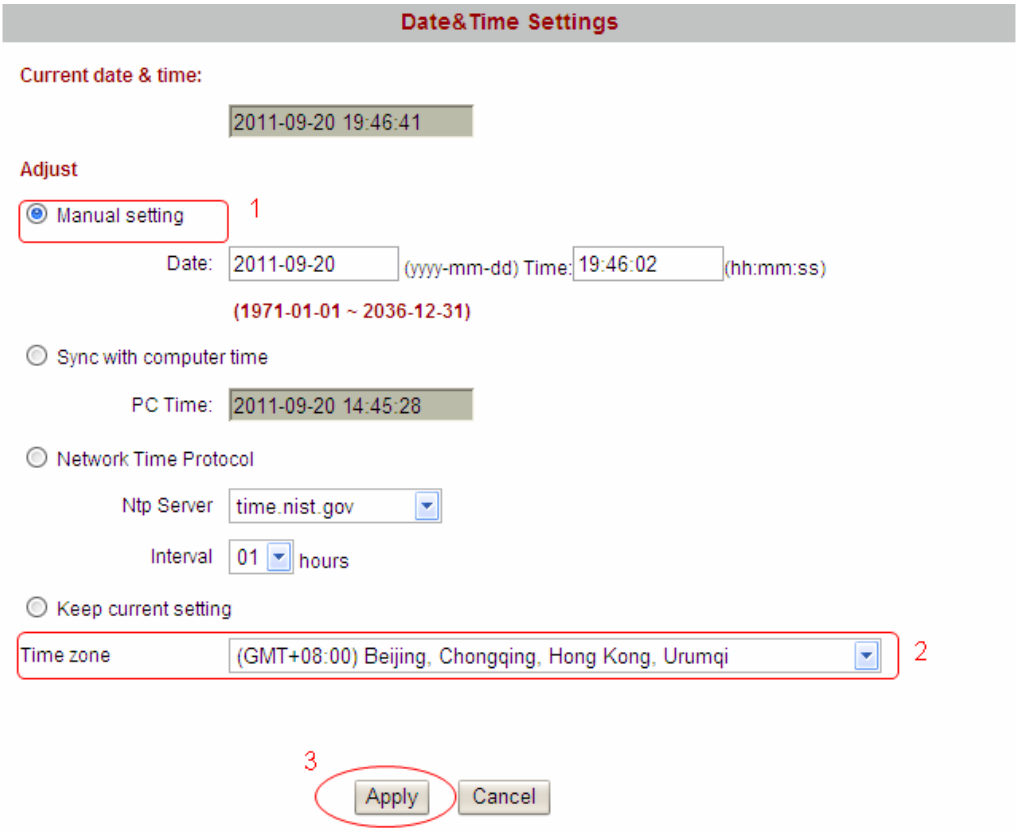

Figure 3.1a

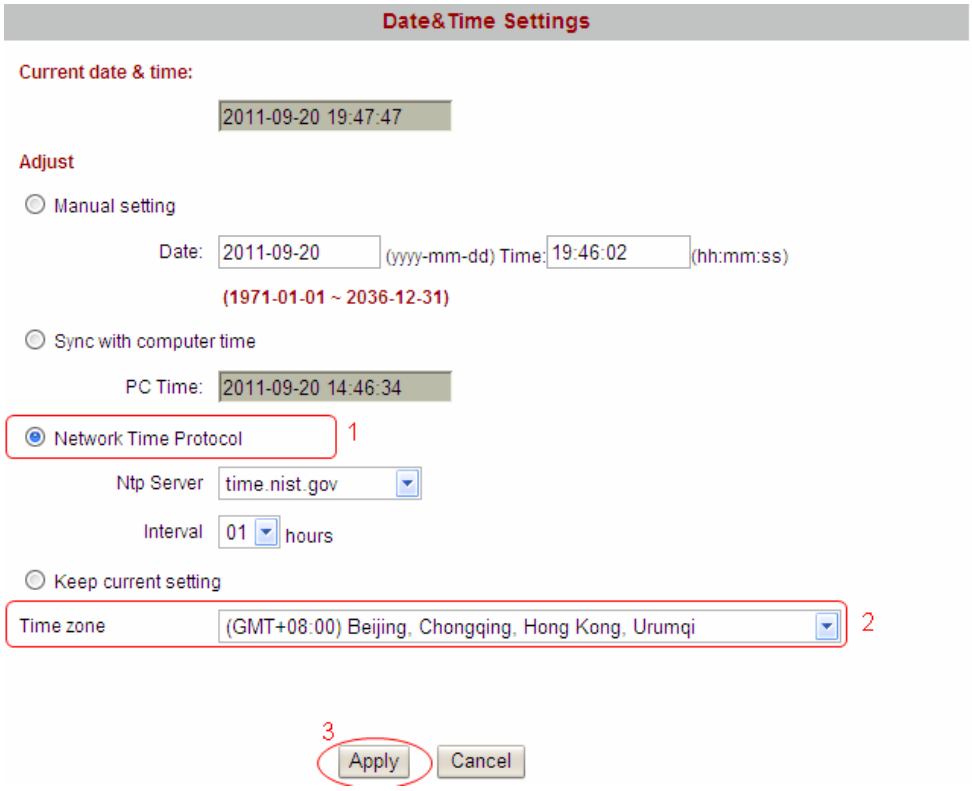

Figure 3.1b

Interval: The interval time between last time and next time that the camera adjusts the time with Ntp Server.

If your country is implementing the Daylight Saving Time, when you select the Time zone, you

can see the following screen:

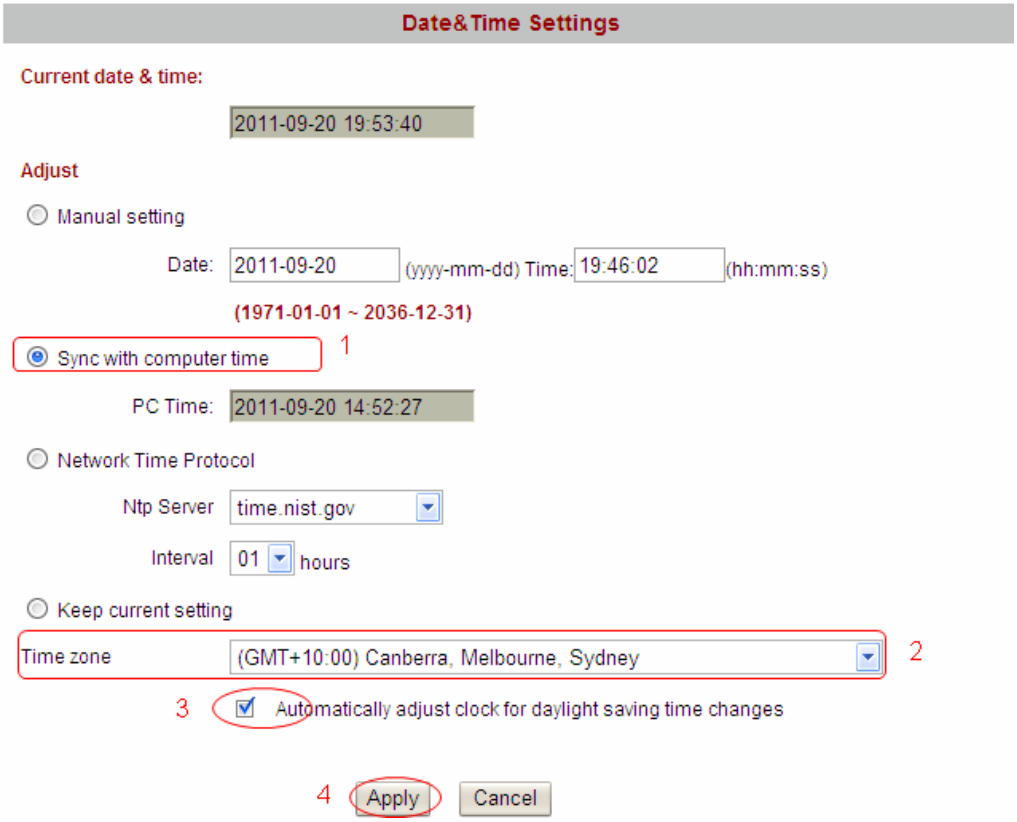

Figure 3.2

The camera will adjust the daylight saving time automatically if you select “Automatically adjust clock for daylight saving time changes”.

3.2 User Settings

The camera has set up 3-level user permissions, user names are admin, user, guest, and the default passwords are admin, user, guest too. Different users have different permissions. Admin has the highest authority. He can do any settings. Guest has the lowest authority.

Please reset the passwords at first using and prevent unauthorized users login the camera.

Click **Apply** to save these settings.

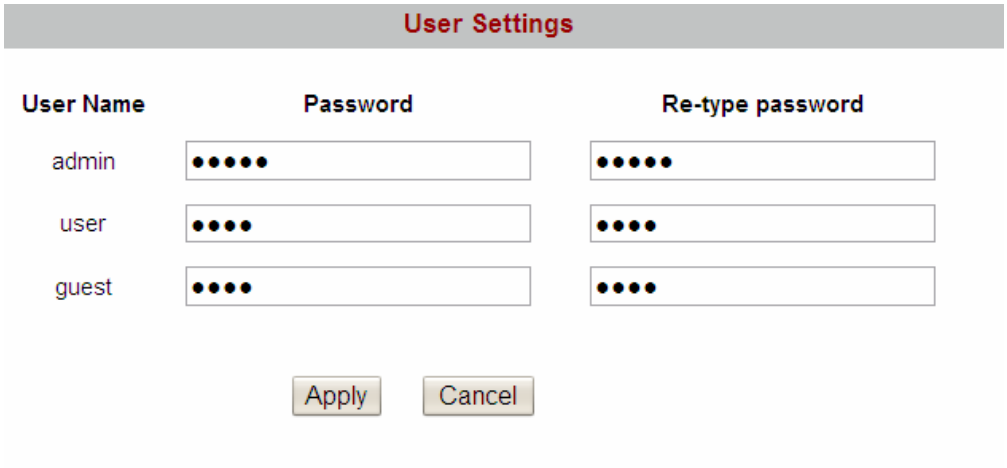

Figure 3.3

Note: You cannot change the user names and the passwords cannot be null.

3.3 Basic Network Settings

IP Configuration Type contains two types: Fixed IP Address and Dynamic IP Address. Set the appropriate type for you. Keep the camera in the same subnet of your router or computer.

3.3.1 Fixed IP Address

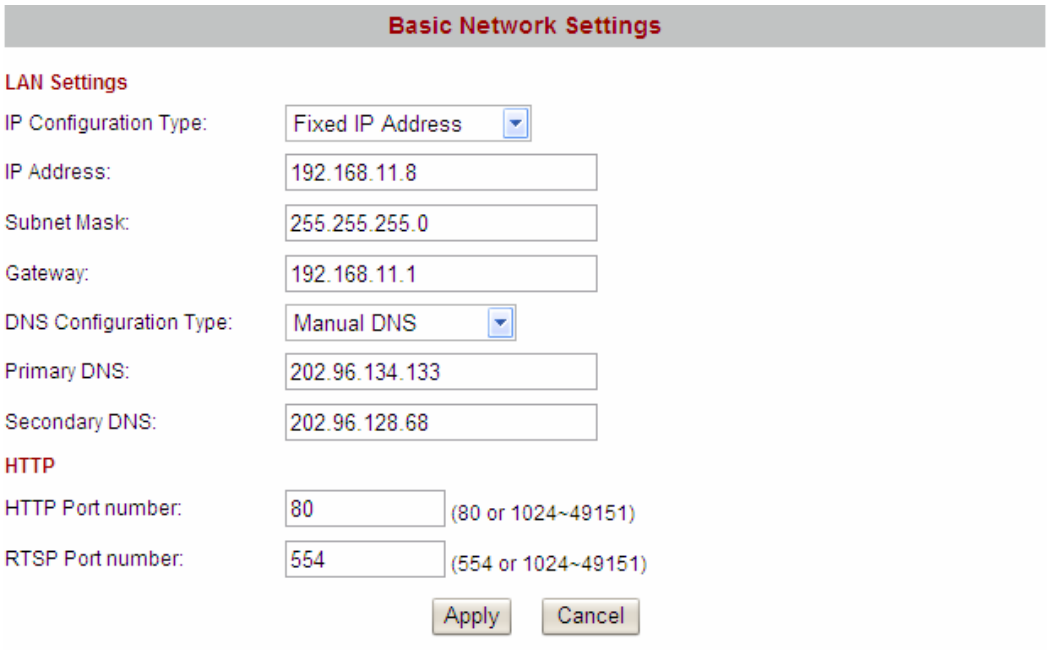

Figure 3.4

If you want to set a static IP for the camera, you should choose Fixed IP Address. Keep the camera in the same subnet of your router or computer. The DNS Configuration Type has two types: Manual DNS and From DHCP Server. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection. It contains all the information. The step is **Control Panel→Network Connections→**Double click **Local Area Connections →** Choose **General→Properties**. You will see all the information in it.

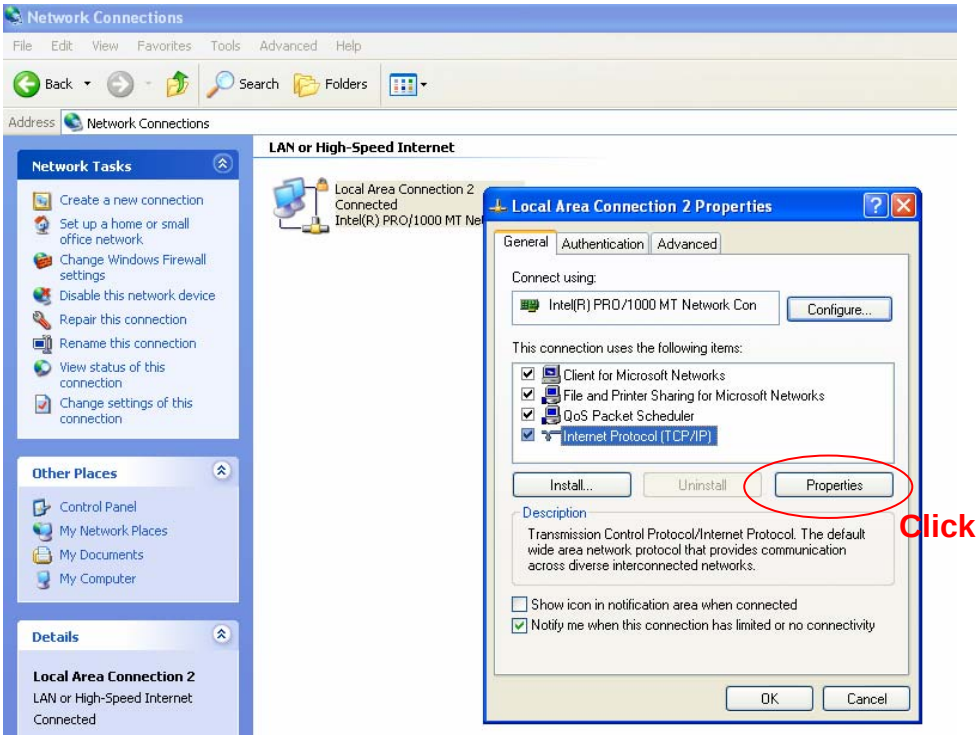

Figure 3.5

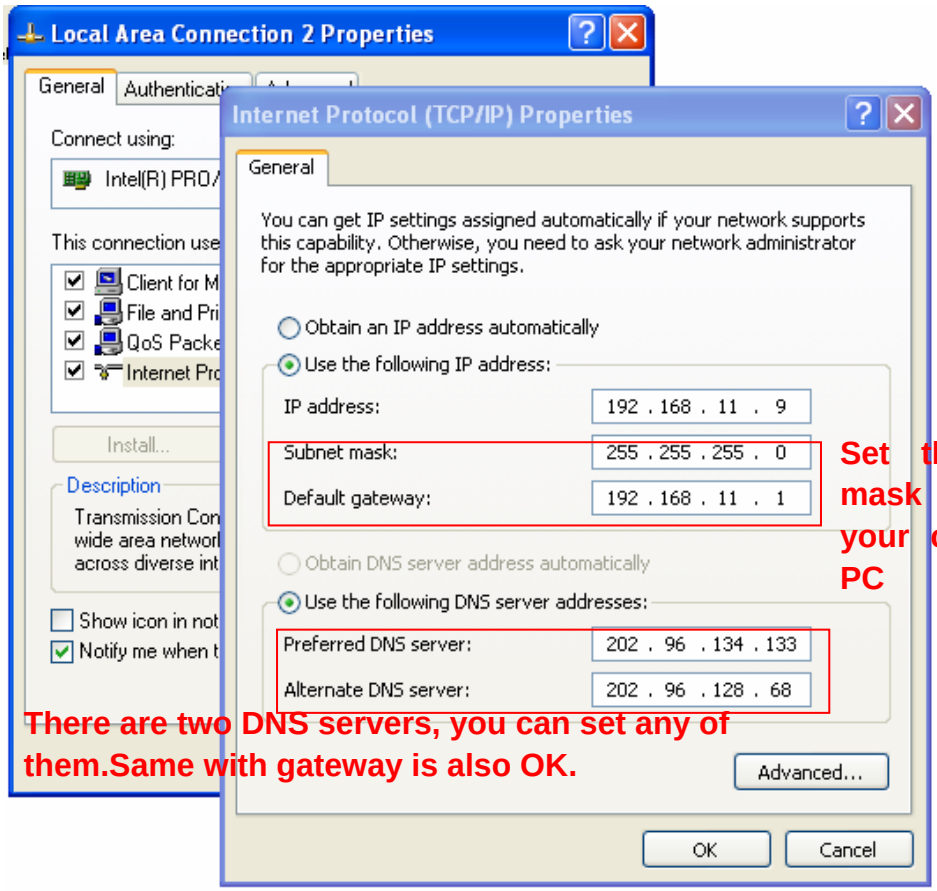
Local Area Connection 2 Properties
General
Connect using:
This connection use
Client for M
File and Pri
QoS Packe
Internet Pro
Install...
Description
Transmission Con
wide area networ
across diverse int
Show icon in not
Notify me when t
Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 11 . 9
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 11 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 202 . 96 . 134 . 133
Alternate DNS server: 202 . 96 . 128 . 68
Advanced...
OK Cancel
Set the same subnet mask and gateway of your camera with your PC
There are two DNS servers, you can set any of them.Same with gateway is also OK.

Figure 3.6

If you don't know the DNS server, you can use the same settings as the default Gateway.

HTTP Port number: Usually, it is 80. You can set any number between 1024 and 49151 too. After all settings, click Apply. You will see the following picture, click OK, and re-connect the camera.

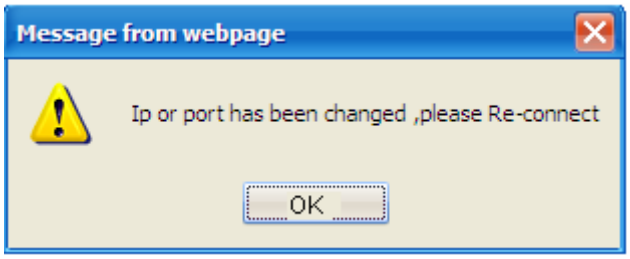

Figure 3.7

RTSP port number: Usually, it is 554. You can set any number between 1024 and 49151 too. Click apply you will see figure 3.7 and the camera will reboot.

Enter rtsp:// IP:RTSP port number/11 or rtsp:// IP:RTSP port number/12 into the VLC, you can see the real-time preview. If the RTSP port number is 554, you can directly enter the following url: rtsp:// IP/11 or rtsp://IP/12 . WAN IP or LAN IP is OK. The number "11" shows that you will use first stream. The number"12" shows that you will use second stream. For example:

Enter rtsp://192.168.11.169/11 in the VLC.

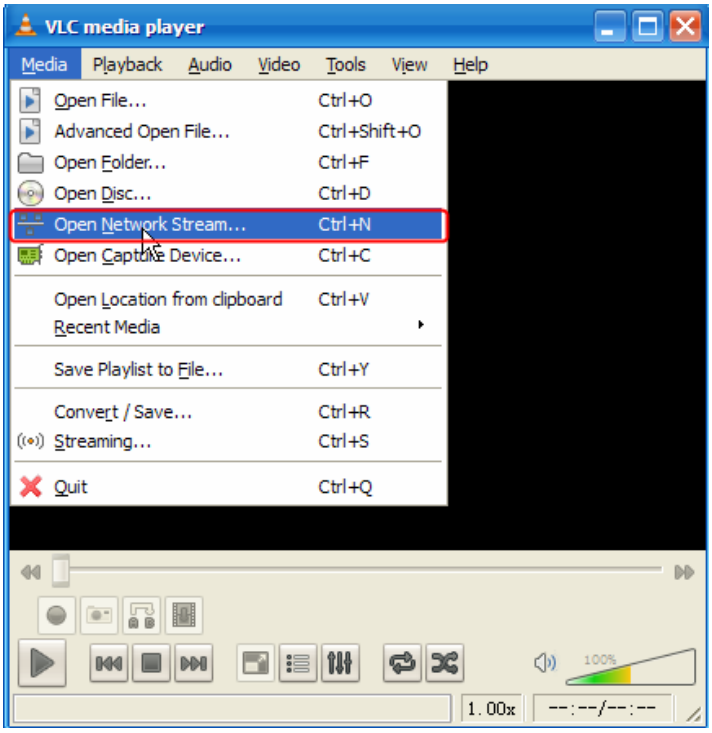

Figure 3.8

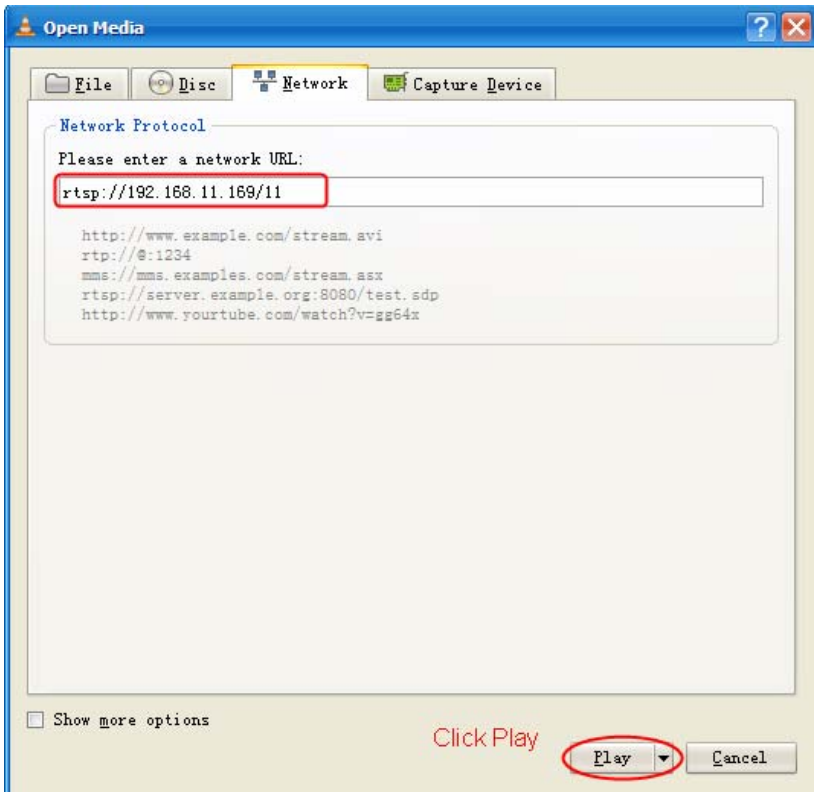

Figure 3.9

You need enter the user name and password again. Click OK and you can see the real-time preview.

Figure 3.10

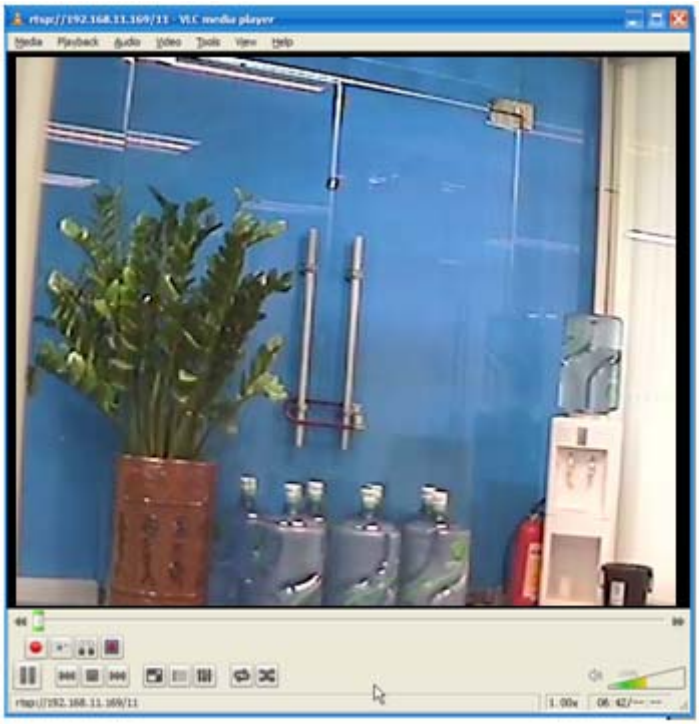

Figure 3.11

Note: 1 You had better not change HTTP Port number and RTSP Port number at the same time, or else you probably cannot save them successfully.

2 If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

3.3.2 Dynamic IP Address

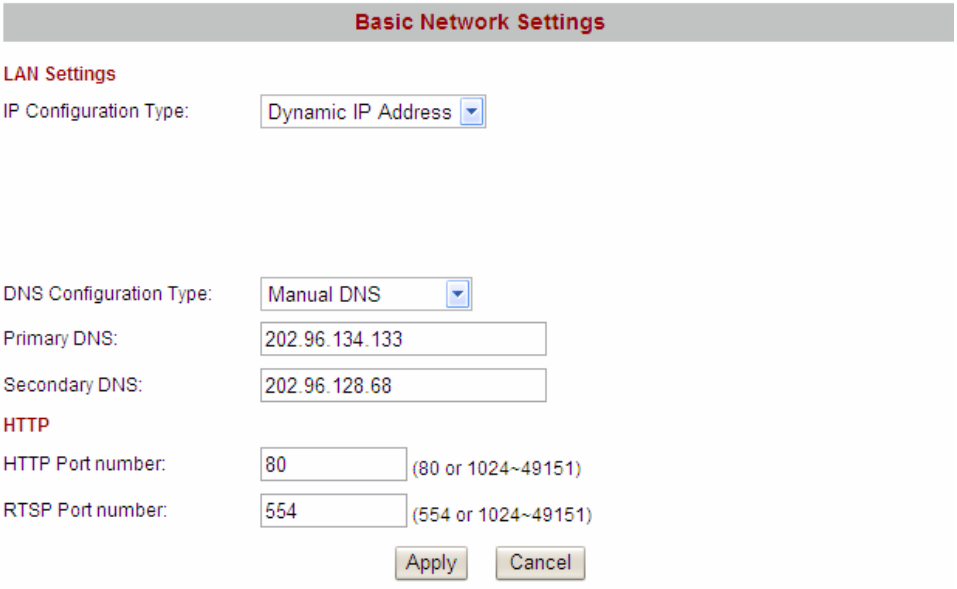

Figure 3.12

The dynamic IP address do not need set IP address, subnet mask and gateway. If you choose “Manual DNS” but you don’t know the DNS, you can do as figure3.5/3.6..

After all settings, click Apply. You will see the following picture, click OK, and re-connect the camera.

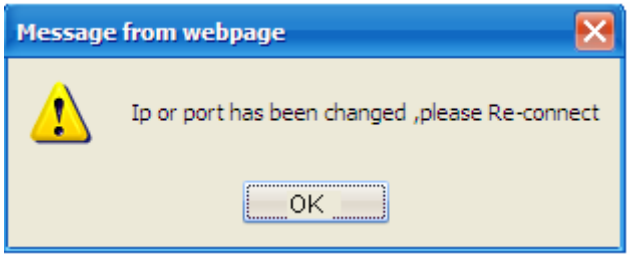

Figure 3.13

3.4 Wireless Settings

There are two modes below Wireless Settings: Infrastructure and Point_to_Point.

3.4.1 Infrastructure mode

First Enable wireless and choose Infrastructure mode.

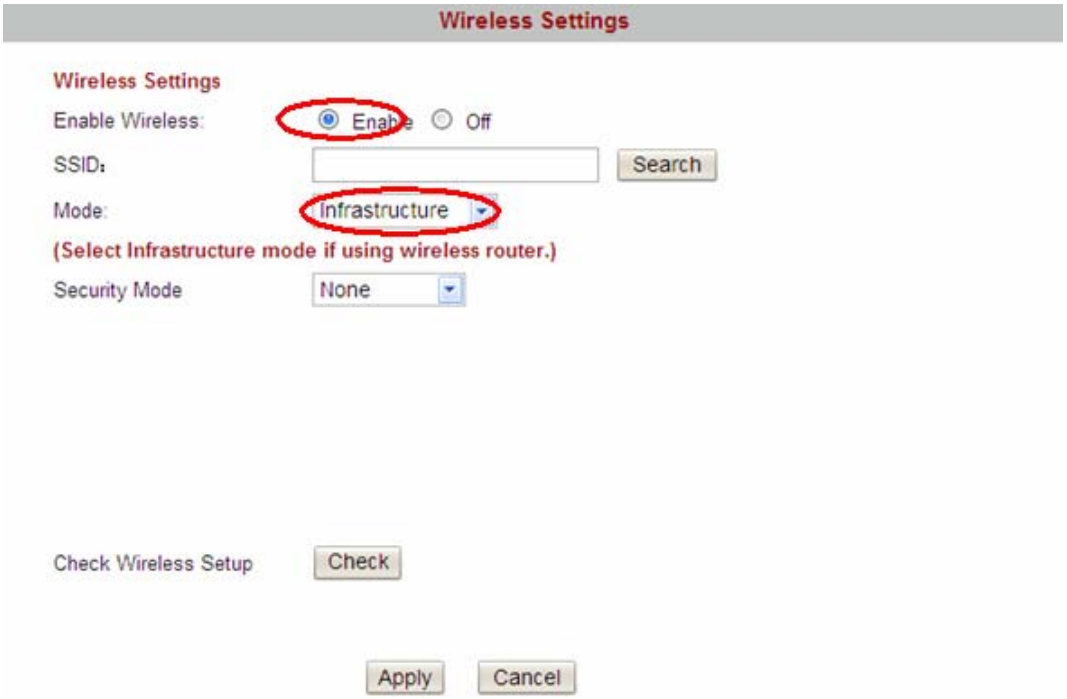

Figure 3.14

Click **Search** button and the camera will detect WIFI device around the area.

http://192.168.1.101 - Wifi Scanner - Microsoft Internet Explorer
OK -81 M/A-COM 00:23:69:db:9f:d8 AES WPA2-PSK Infra 1
OK -69 ChinaNet-HkWc 00:25:68:e8:d5:22 TKIP WPA-PSK Infra 1
OK -75 VanceInfo_14C03 d8:5d:4c:47:13:82 AES WPA (2)-PSK Infra 1
OK -63 ChinaNet-PzPY 00:1e:10:fd:79:f9 TKIP WPA-PSK Infra 2
OK -61 IPCAM 1c:af:f7:1a:5b:40 WEP OPEN Infra 6
OK -63 foscam 00:1b:11:fc:a6:34 WEP OPEN Infra 6
OK -55 cisco 00:25:9c:b1:df:9a TKIP WPA-PSK Infra 6
OK -51 IPCAM3 94:0c:6d:d6:9f:da WEP OPEN Infra 8
OK -81 dunedinsa 00:17:9a:62:2e:45 TKIP WPA-PSK Infra 8
OK -43 hardware f4:ec:38:33:95:30 WEP OPEN Infra 11

Figure 3.15

Choose the SSID of your router in the list and click ok in the front of it, the corresponding information (SSID, Security mode, WPA Algorithm & WEP key index) will be filled automatically as the following picture.

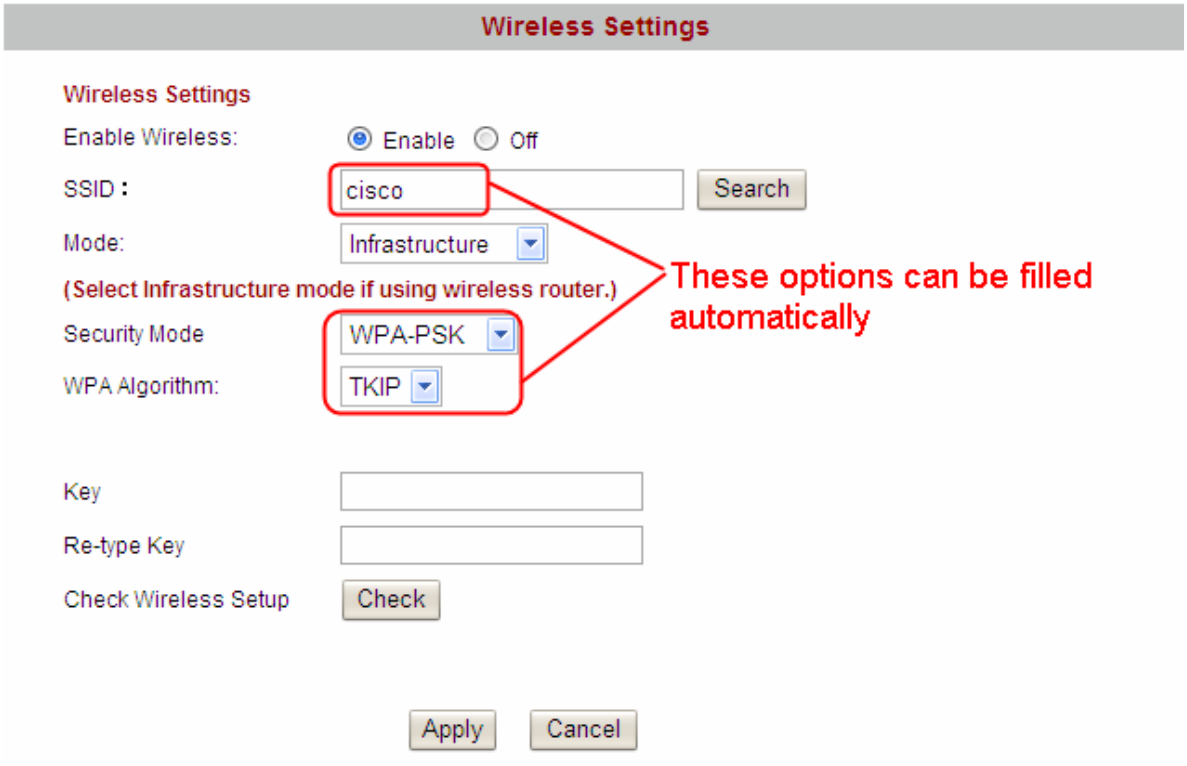

Figure 3.16

You only need fill in key. Access your router and get the key.

Figure 3.17

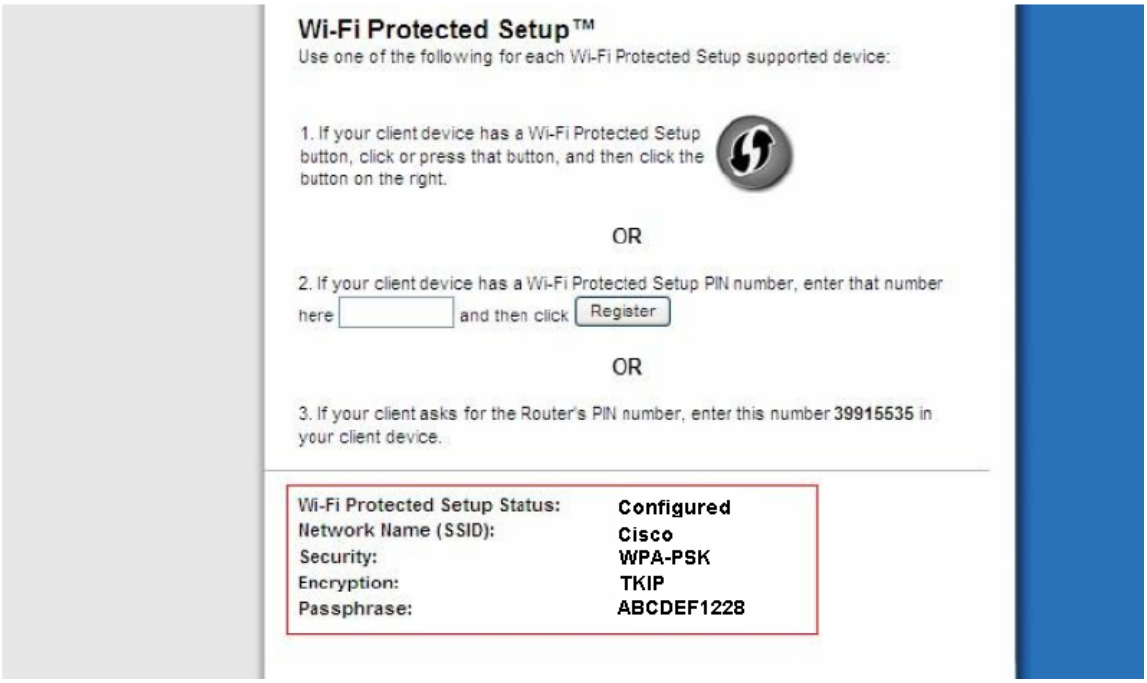
Wi-Fi Protected Setup™
Use one of the following for each Wi-Fi Protected Setup supported device:
1. If your client device has a Wi-Fi Protected Setup button, click or press that button, and then click the button on the right.
OR
2. If your client device has a Wi-Fi Protected Setup PIN number, enter that number here and then click Register
OR
3. If your client asks for the Router's PIN number, enter this number 39915535 in your client device.
Wi-Fi Protected Setup Status: Configured
Network Name (SSID): Cisco
Security: WPA-PSK
Encryption: TKIP
Passphrase: ABCDEF1228

Figure 3.18

Fill in key and click check. You can see whether WIFI settings are correct. If correct, you will see the following picture.

http://192.168.1.101 - Check Wireless Setup - Micros...
Checking WiFi, please wait about 30 seconds.
Successful connection, wireless settings
are correct.
Please click "Apply"Save the wireless
Close

Figure 3.19

If wrong, you will see a dialog box as below. Close the dialog box and reset wireless again.

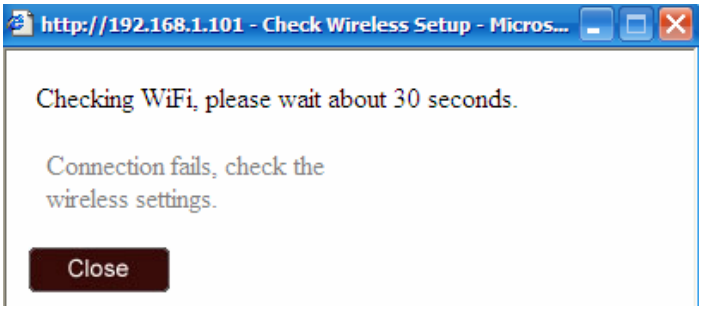
http://192.168.1.101 - Check Wireless Setup - Micros...
Checking WiFi, please wait about 30 seconds.
Connection fails, check the
wireless settings.
Close

Figure 3.20

When settings are correct, click apply. Plug out the network cable and replug the power, the camera will work on WIFI.

3.4.2 Point_to_Point mode

If you want to use the wireless function without wireless router, you can choose Point_to_Point mode. Make sure the PC has wireless network card.
First Enable wireless and choose Point_to_Point mode.

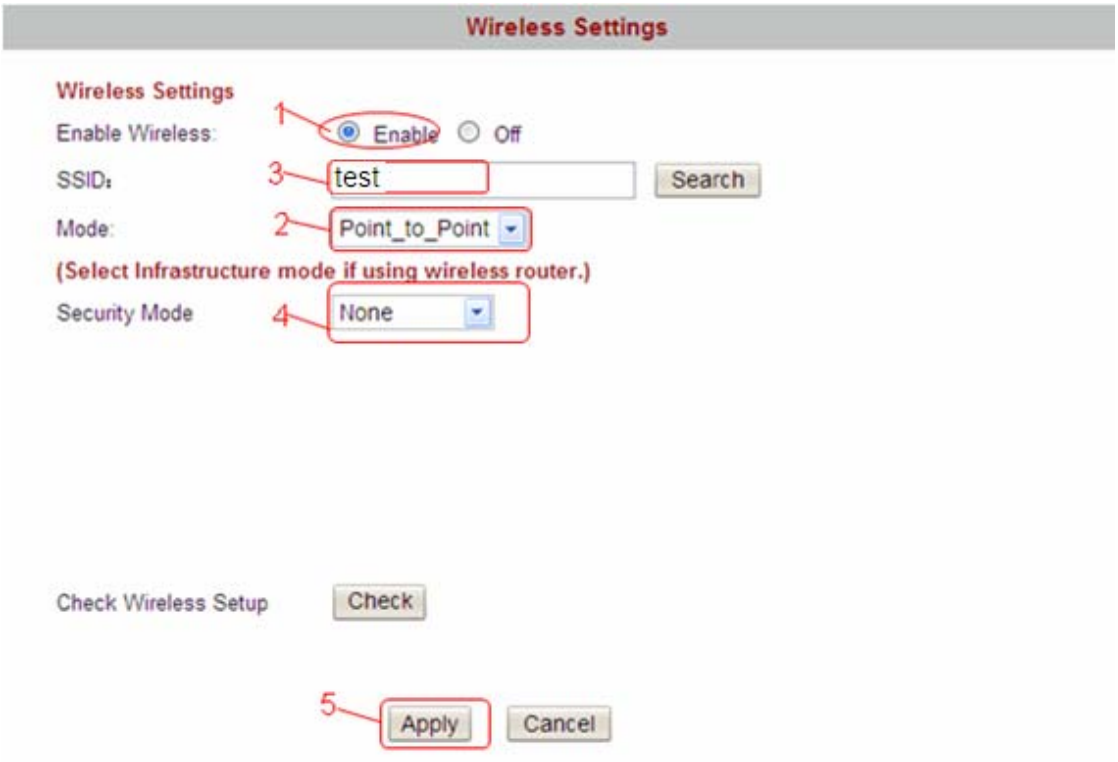

Figure 3.21

Fill in a SSID. Then set the security mode, you can choose none or others and click Apply.
Plug out the network cable of the camera and then re-plug the power. You can search the camera again in the IP Camera Tool. Open the wireless network card of PC and search the SSID you have filled. You can find it as the following picture:

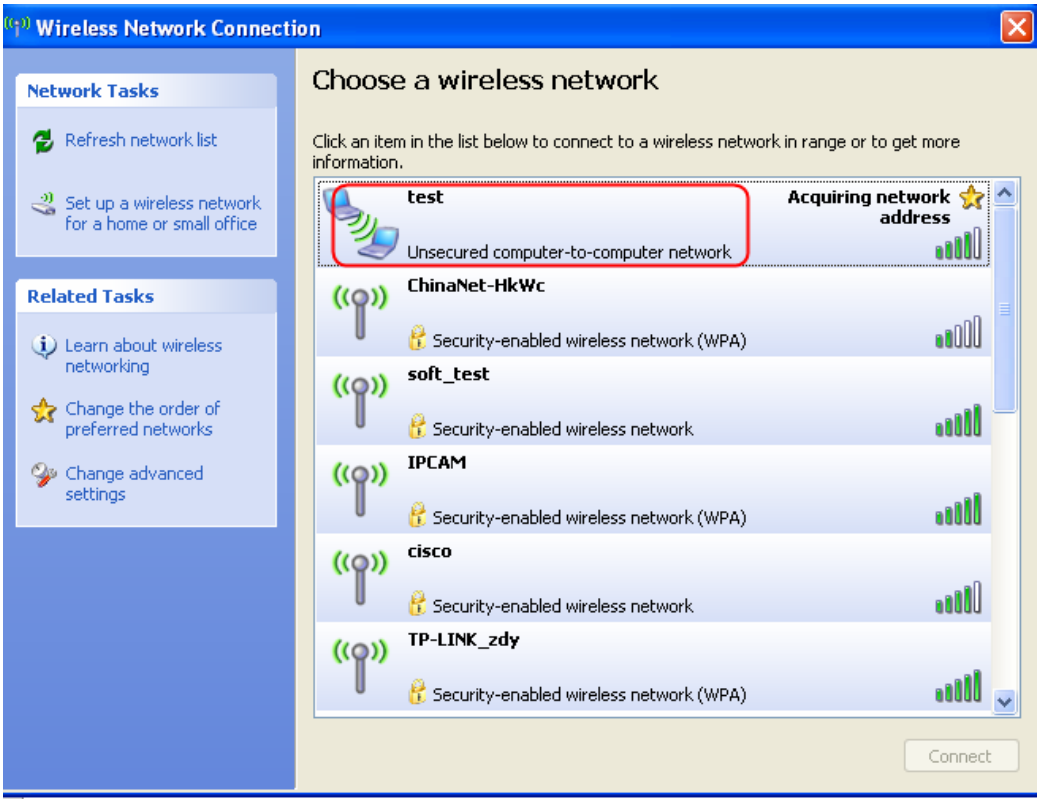

Figure 3.22

Choose it and you computer will use the wireless network. If you have not set wireless key at figure3.21, you need not enter the key when you choose the SSID. Make sure that SSID, Security mode and key you filled in for the PC are exactly the same for your camera(Figure 3.21). The PC and camera will work on wireless and point_to_point mode.

3.5 Remote Access

You can access camera by two ways: static IP and domain name.

- **Static IP user**

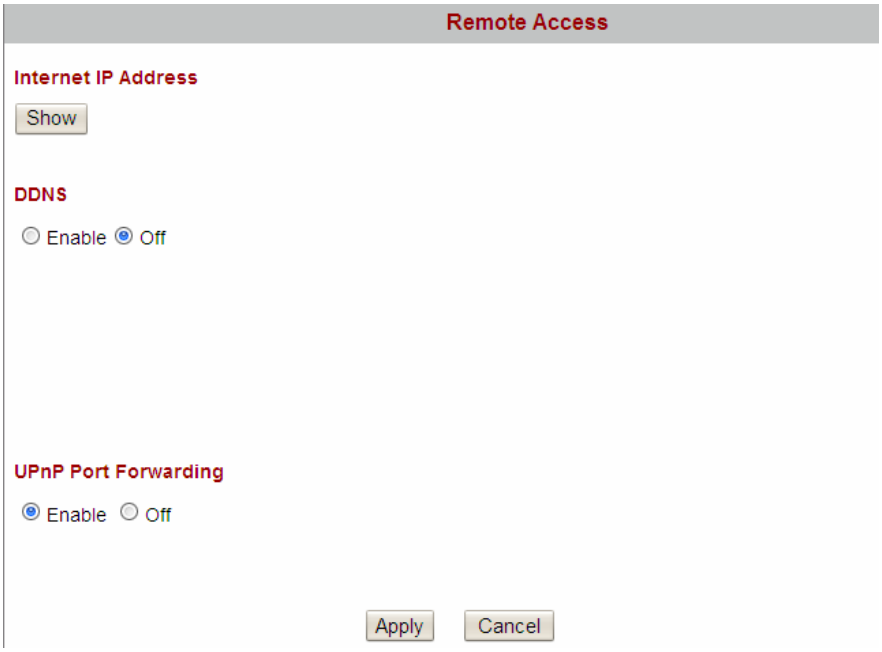

Figure 3.23

Static IP users need not set DDNS service settings for remote access. When finished the connection of Camera in LAN and port forwarding. You can access the camera directly from Internet by the WAN IP and port number.

Click show, you will see a dialog box as below.

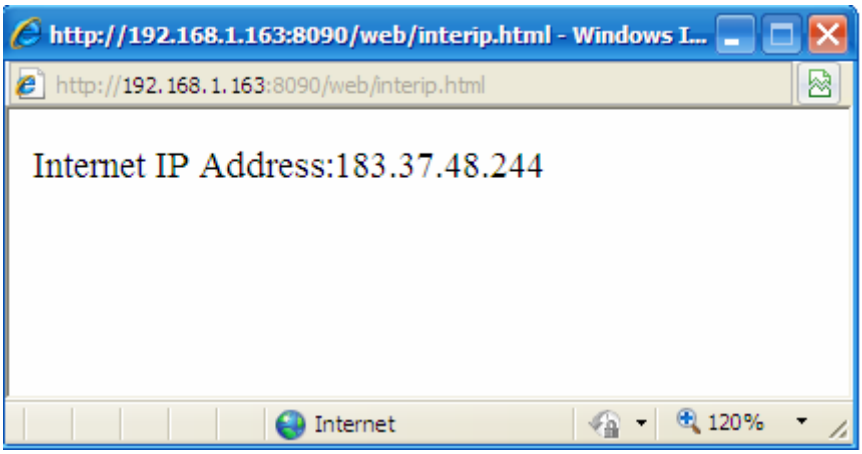

Figure 3.24

Enter WAN IP address and port number in the browser to login the camera.

For example: Http:// 183.37.48.244:8090

Note: Make sure the Port mapping is success. (Please read Quick Installation Guide about How

to do port mapping)

➢ **Dynamic IP user**

Please set DDNS service settings as follows. Use the DDNS domain name you got from the dyndns website.

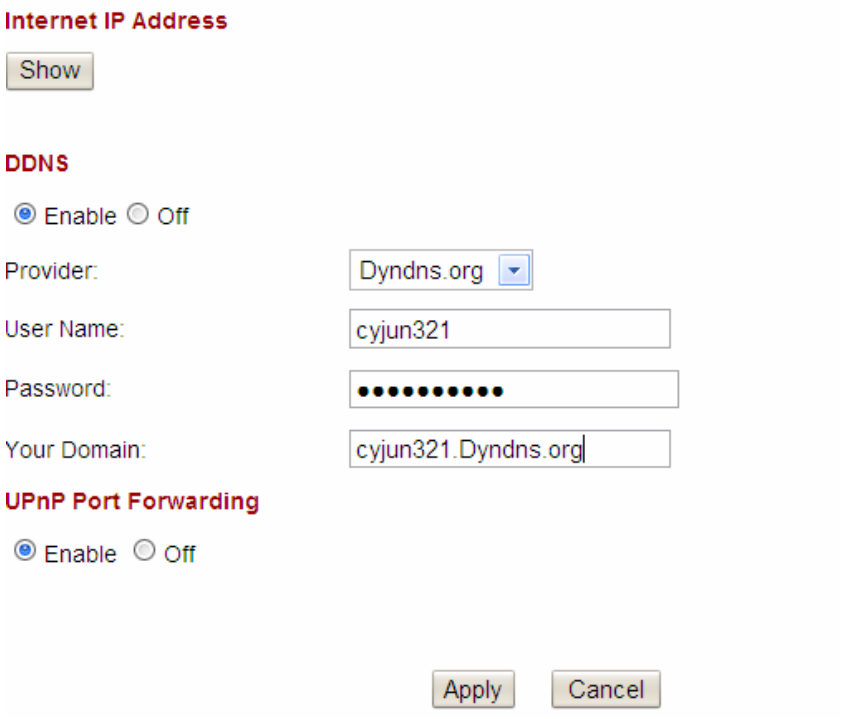

Figure 3.25

Please click Apply after fill in all the information.
You can use DDNS domain name and port number to login your camera at any place.
For example, use strings http://cyjun321.Dyndns.org:8090 to login the camera. Here cyjun321.Dyndns.org is the DDNS Host, 8090 is the camera's port.
Note: Make sure you have enabled the UPnP Port Forwarding. The camera's software will be configured port forwarding. We recommend you configure port forwarding manually on your router.

3.6 Email Settings

If you want the camera to send emails when motion has been activated, **Email Settings** will need to be configured.

.

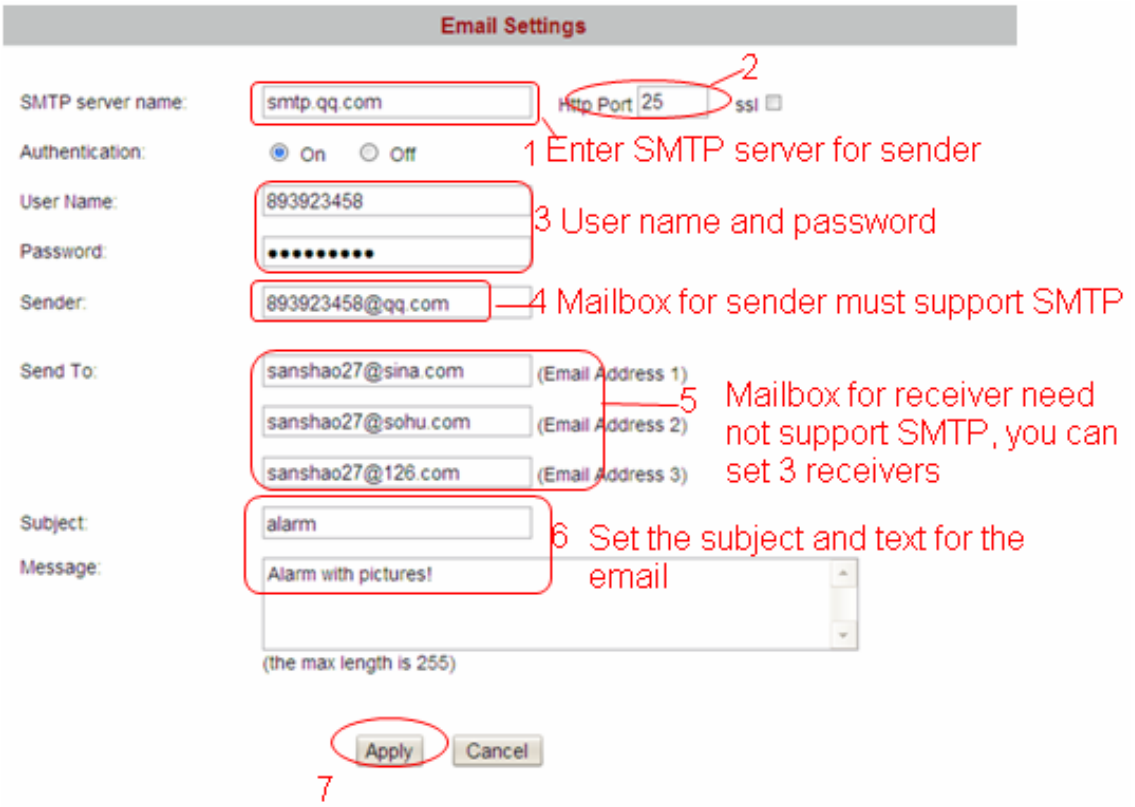

Figure 3.26

Make sure your mailbox for sender supports SMTP. Three recipients can be added to receive images. **SMTP port** is usually set as 25. If SMTP server supports SSI, you should choose it. The subject and message can not be Chinese characters.

3.7 FTP Settings

If you want to upload images to your FTP server, you can set **FTP Settings**.

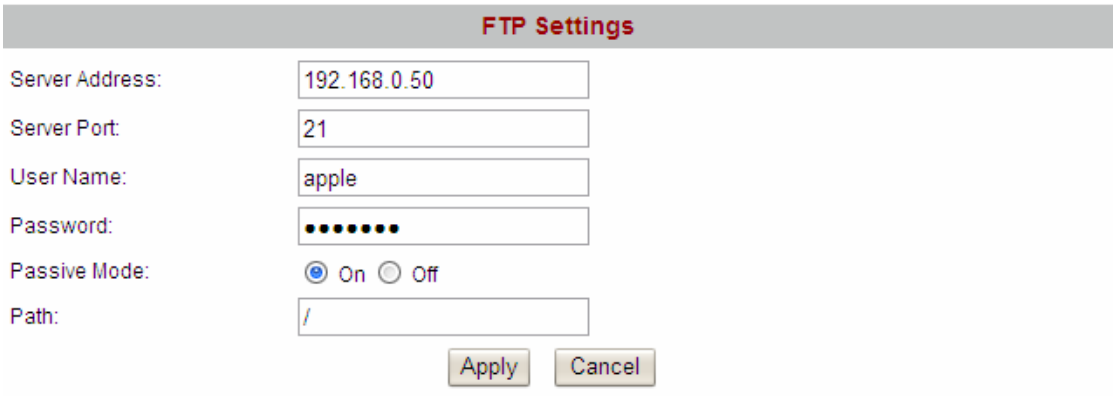

Figure 3.27

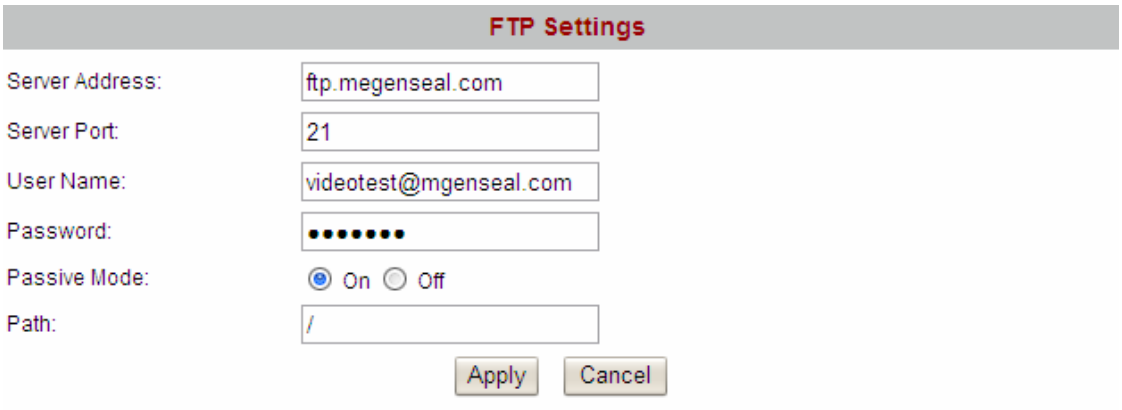

Figure 3.28

FTP server: If your FTP server is set up in LAN, you can set as Figure 3.27.
If you have a FTP server which you can access on the internet, you can set as Figure 3.28.
FTP Port: Usually the port is 21
Path: The path of FTP that you plan to store images.
If the FTP server mode is passive, choose on, or else, choose off.
Click Apply after settings.

3.8 Auto Capture

The camera can capture pictures automatically at interval time if you have set auto capture.

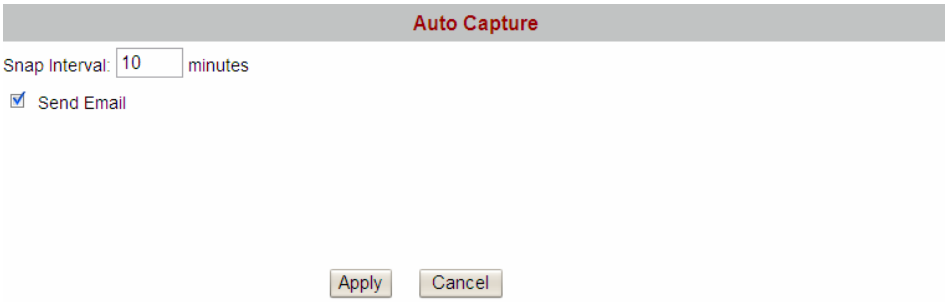

Figure 3.29

Snap interval: Set snap interval time. The pictures will be stored to the disk you set (you can set the storage path under “For Visitor”).
Send E-mail: Select it, the camera will send email to you with the picture it has captured. Make sure you have set E-mail correctly.
Click Apply after settings.

3.9 Terminal

If the camera has connected with cradle head, you need set terminal firstly.
Find the related information about the cradle head at the cradle head user manual and fill the following options. Click Apply and save your settings.

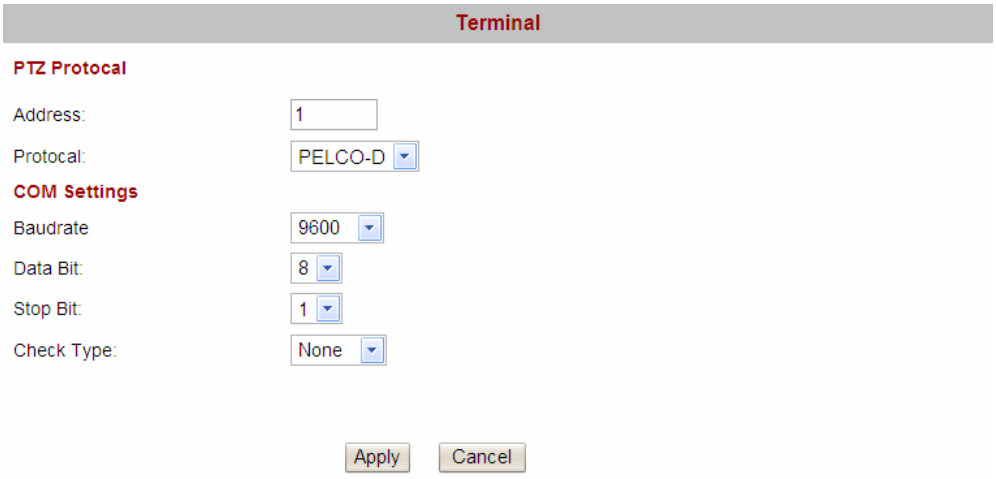

Figure 3.30

3.10 Motion Detection

If the user wants to monitor a special region, he should select motion detection.
IP CAM supports four detection regions. Choose the options dialog box before window1, window2, window3, window4 to enable the corresponding areas. For example, choose window1.Then you can see a box with a number at living video (Figure 3.31).

Figure 3.31

Move your mouse on the regional box, you can drag the regional box to any position in the video.

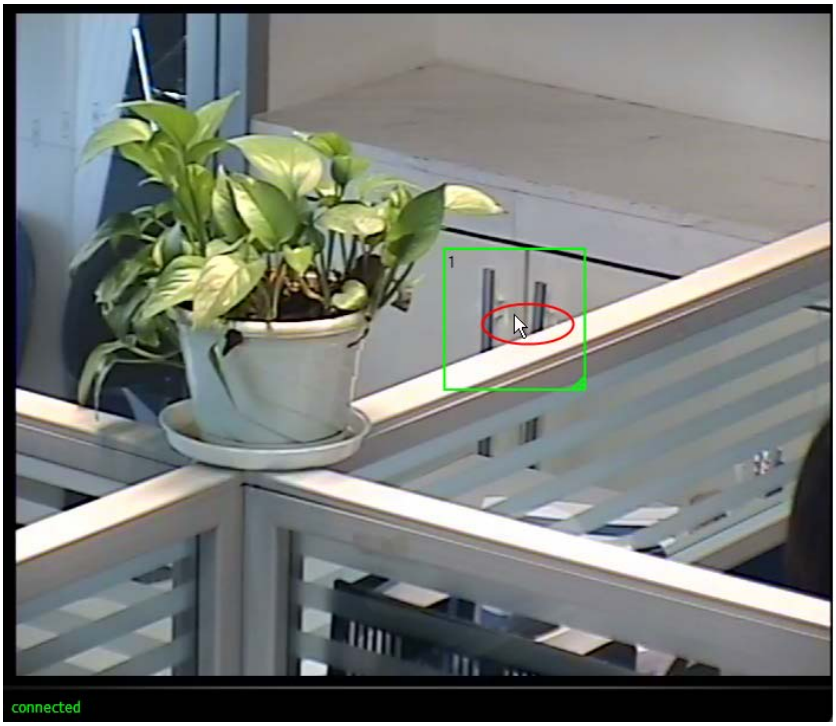

Figure 3.32

Move the mouse to the bottom right corner of the regional box .When the mouse pattern changes to “ ”, you can change the size of the detection area.

Figure 3.33

Move right or left and adjust the sensitivity.Click apply after all settings.The regional box will blink with red colour when something moving at your detection area.

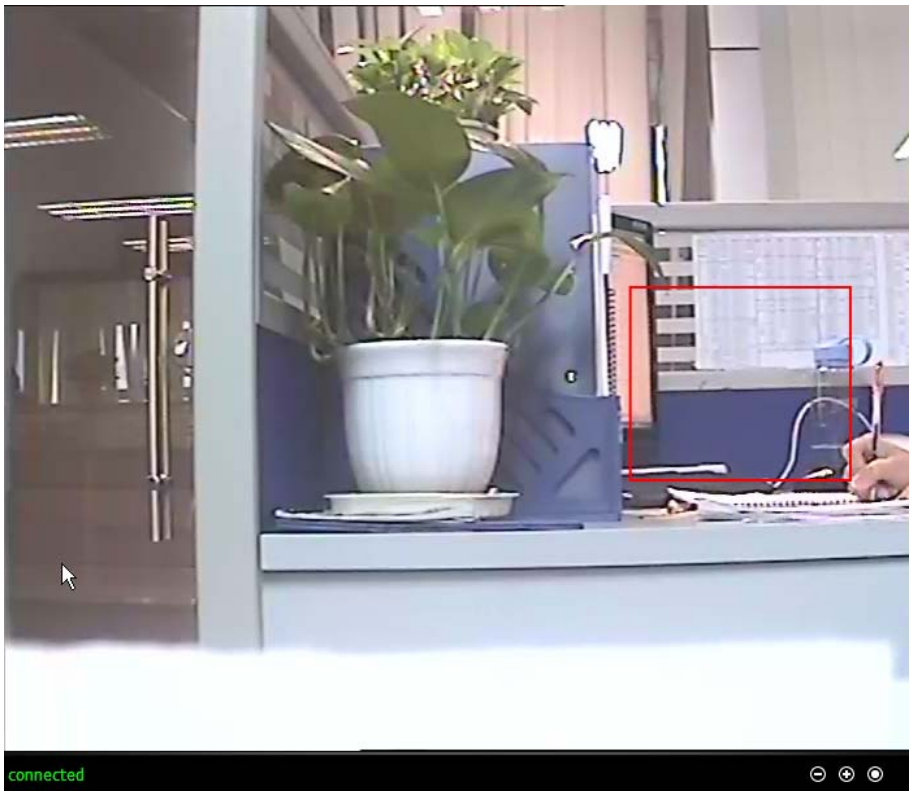

Figure 3.34

Note:1 If you add the date&time to the video,don't put the detection window on the time area or else the camera will alarm when the time change.

2 If you have not set the motion detection area,the camera will not alarm at any time.

3 Firefox, Google chrome, Safari doesn't support the function because the activex can not support it.

3.11 Alarm

Set alarm and It will send email or upload images when motion has been detected.

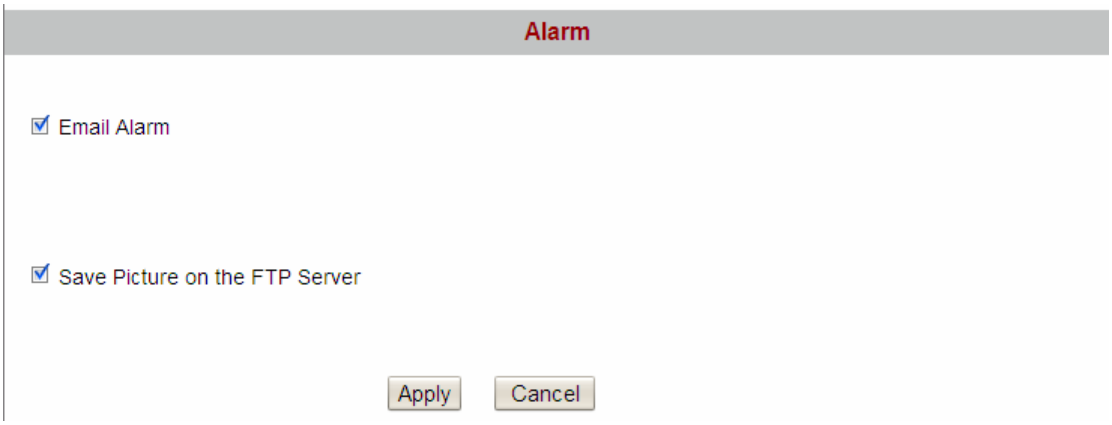

Figure 3.35

Email Alarm: Camera will send emails when motion is activated. Make sure you have set Email Settings.
Save Picture on the FTP Server: To upload images to an FTP server when motion is detected, make sure you have set FTP Settings.
Click Apply after settings.

3.12 Schedule

If you want the camera alarm during the time you wish, or all the time, please choose Schedule and set time range for motion alarm.

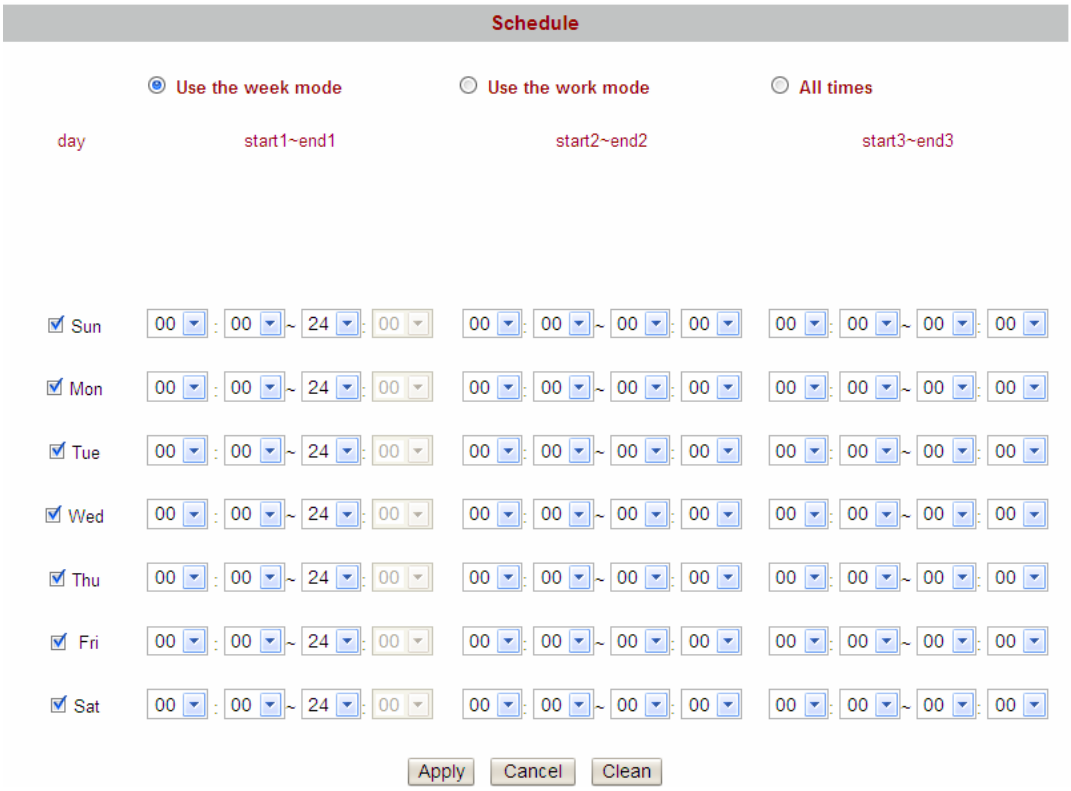

Figure 3.36

There are two ways to set the alarm.
1) Alarm at any time when motion is detected.
Select All times and apply you settings, the camera will alarm at any time when motion is detected.
2) Specify an alarm schedule.
If you want the camera to alarm during a specify time, you can select Use the week mode **or** Use the work mode and set time range.
Click apply, the settings what you have done will take effect.

If you click cancel, the settings will come back to the status before your settings.

If you want to reset all time range, click clean.

NOTE: Adjust system time before set schedule.

3.13 Video

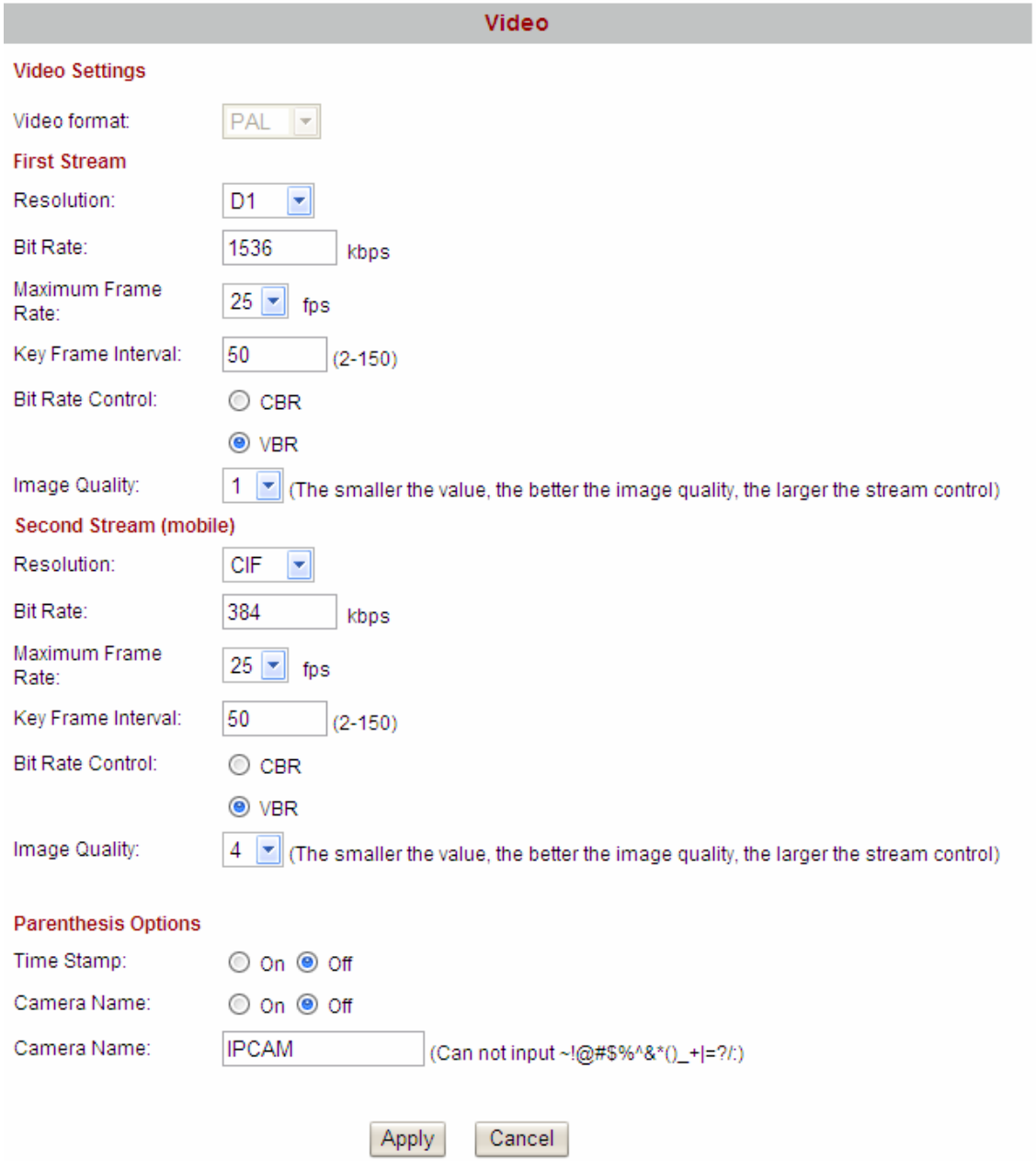
Video
Video Settings
Video format: PAL
First Stream
Resolution: D1
Bit Rate: 1536 kbps
Maximum Frame Rate: 25 fps
Key Frame Interval: 50 (2-150)
Bit Rate Control: CBR
VBR
Image Quality: 1 (The smaller the value, the better the image quality, the larger the stream control)
Second Stream (mobile)
Resolution: CIF
Bit Rate: 384 kbps
Maximum Frame Rate: 25 fps
Key Frame Interval: 50 (2-150)
Bit Rate Control: CBR
VBR
Image Quality: 4 (The smaller the value, the better the image quality, the larger the stream control)
Parenthesis Options
Time Stamp: On Off
Camera Name: On Off
Camera Name: IPCAM (Can not input ~!@#$%^&*()_+|=?/:)
Apply
Cancel

Figure 3.37

Video format: The format contains two kinds: NTSC and PAL. One camera only has one format and you cannot change it.

Resolution: The camera supports First stream: D1(704*576),CIF(352*288),QCIF(176*144), Second stream: CIF(352*288),QCIF(176*144). The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth.

Bit rate: Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.

Note: Bit rate of the first stream range :32～2048Kpbs；Bit rate of the second stream range：32～512Kpbs.

Maximum frame rate: When the video format is PAL, the maximum frame rate is 25 fps. When the video format is NTSC, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

Key Frame Interval: The time between last key frame and next key frame.

Bit rate control: It has two models: CBR and VBR. If you choose CVR, video encoder will be coding on the basis of bit rate you set. If you choose VBR, video encoder will be coding not only on the basis of bit rate, but also consider video quality.

The resolution of the second stream: The smaller the value, the better the image quality,

Parenthesis options: The camera name and time can be loaded to the video screen through this option .If you set as following picture (Figure 3.38), click Apply and you will see the video as Figure3.39. The camera name cannot be Chinese characters.

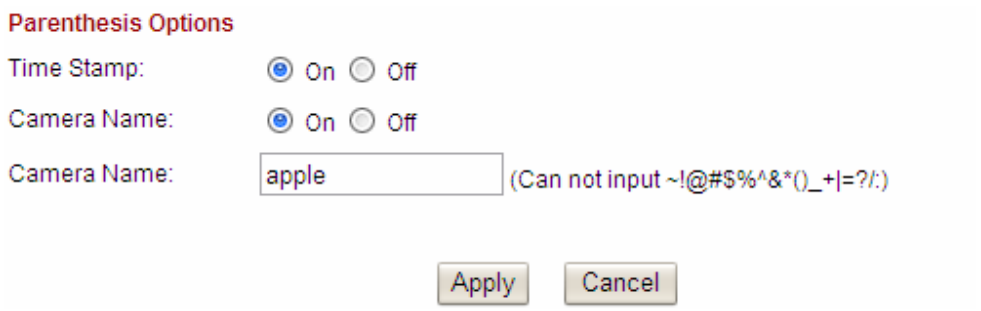

Figure 3.38

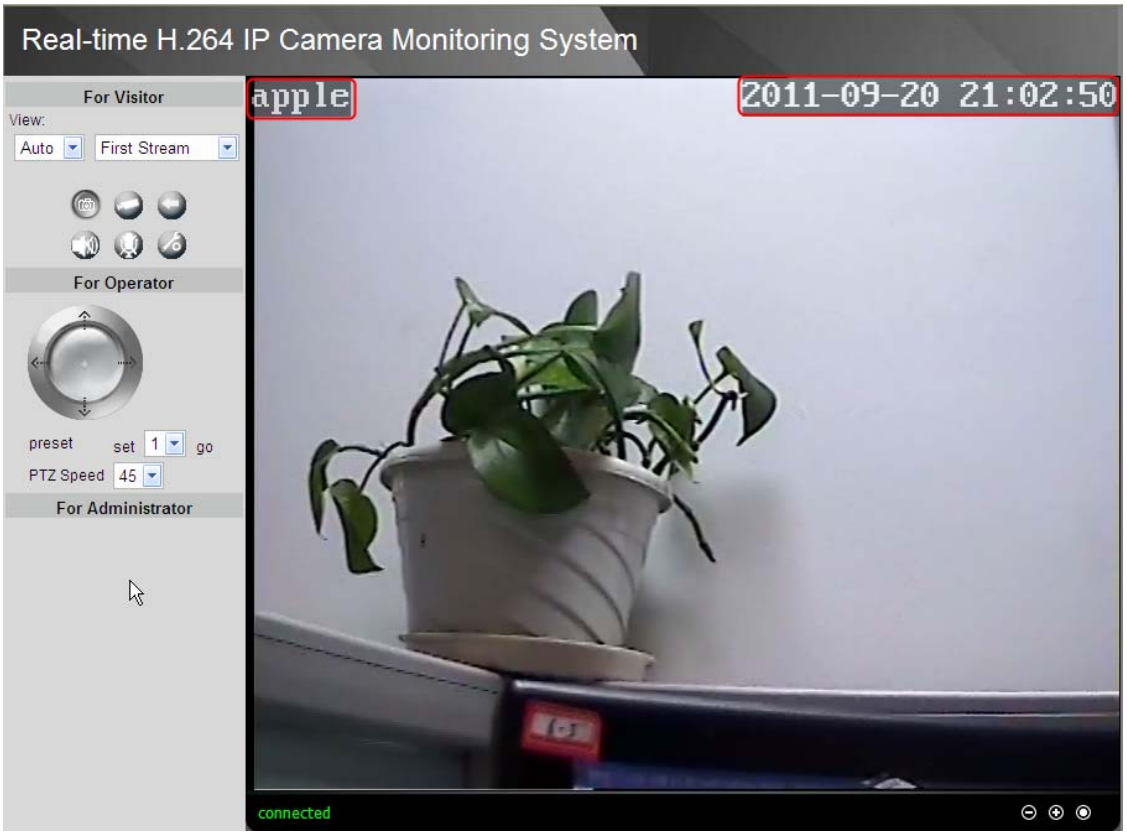

Figure 3.39

3.14 Image Settings

Adjust the quality of the video by setting the image parameters.

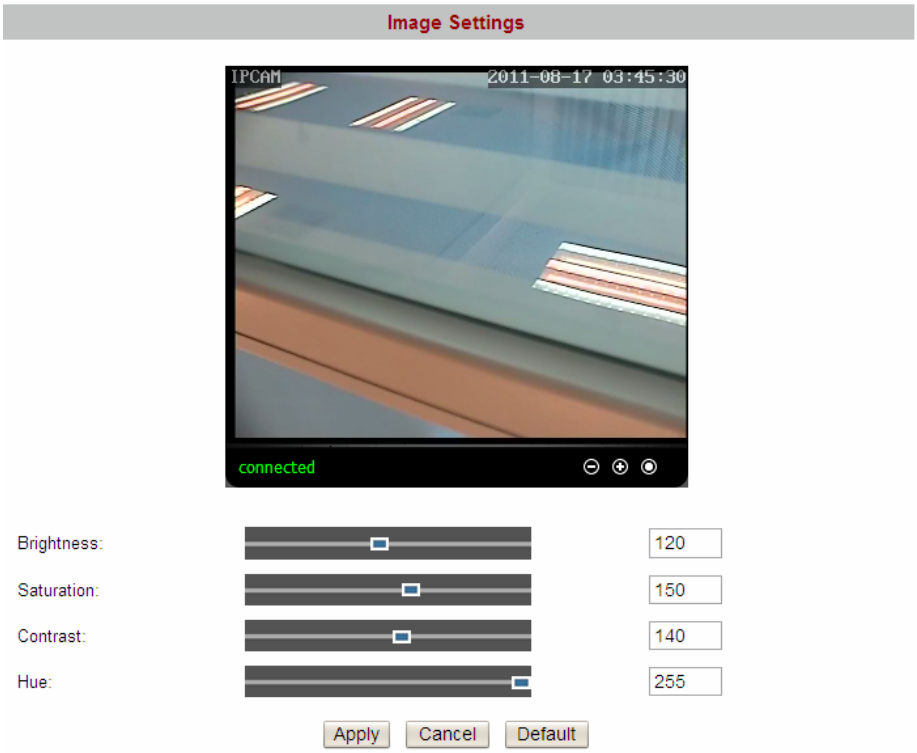

Figure 3.40

Brightness, saturation, contrast and hue are used to adjust the quality of the video. Camera will save your settings if you click apply. If you want to quit settings you have done and restore the status before your setting, please click cancel. The function of Default is used to restore the initial settings.

3.15 Audio

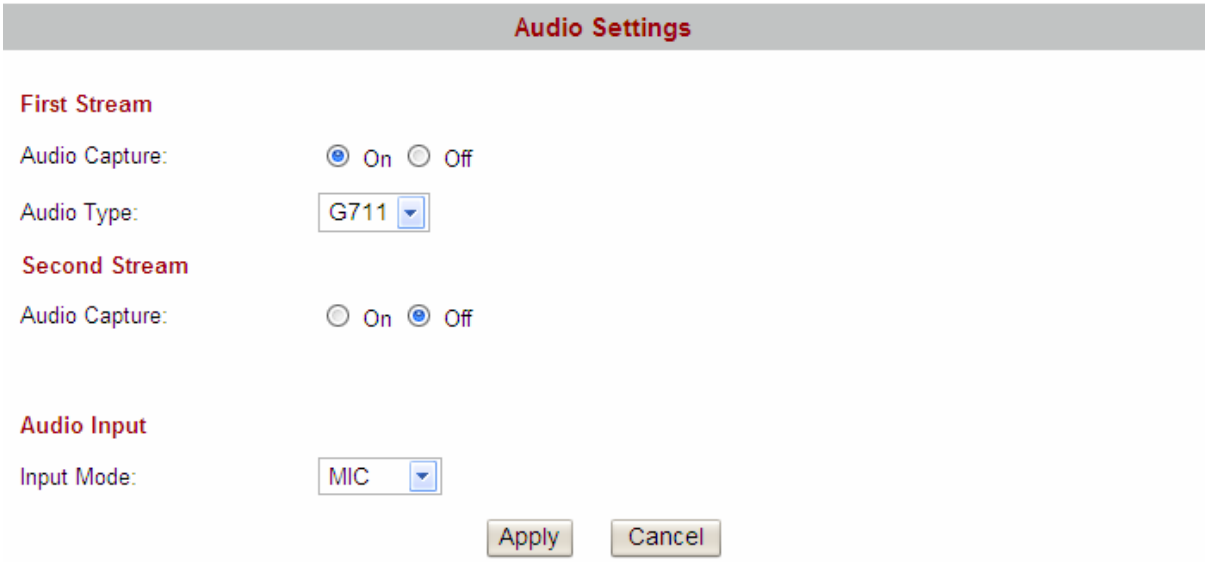

Figure 3.41

Audio capture
On: Add audio signal when coding. Choose it and the audio will be better.
Off: Not add audio signal when coding.
You can choose whether open audio capture for first stream or second stream.
Audio type
It has two types: G711 and G726.You can choose any one.
Note: If you use Firefox, Google Chrome, Safari, you must choose G711.Because the ActiveX doesn't support G726.
Audio input
MIC: If the audio input interface of the camera has connected with microphone, here you should choose MIC.
Line in: If the audio input interface of the camera has connected with linear audio input signal device, here you should choose Line in.
Which one you choose is decided by the device that connect with audio input interface.
Click Apply, you can see a dialog box as below:

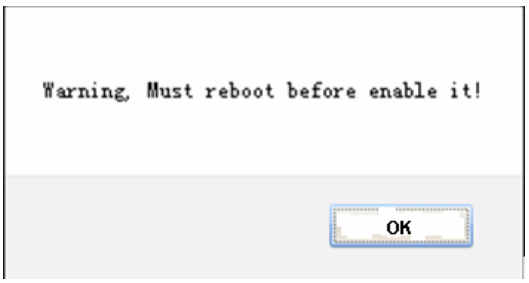

Figure 3.42

Click OK to reboot camera.
If you give up the settings you have done, click cancel to restore the status before your setting.

Back to the “For Visitor” and click the icon , you can here the voice around the camera.

3.16 Initialize

Reboot: Click reboot, the infection is the same as plug the power and re-plug it.
Factory default: Click it, all parameters will return to factory settings.
Backup setting data: If you don’t want to quit all parameters that you’ve set. You can click **save** and all the parameters you set will be stored as a parameters bin file.
Restore: Click browse, choose the correct bin file and then click ok to get all parameters which you set before.
Upgrade: Click **Browse**, choose the correct bin file and then click **OK** to upgrade. Don’t shut down the power during upgrade.

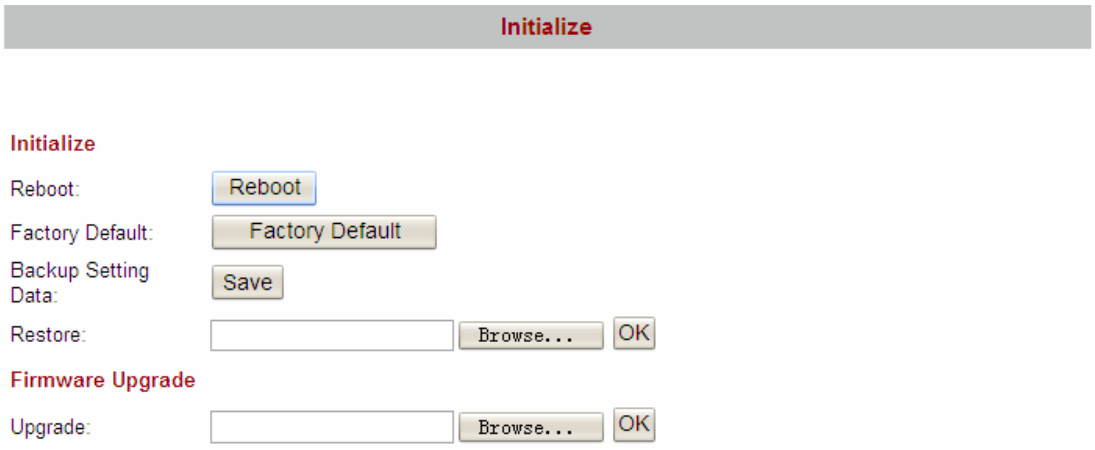

Figure 3.43

Note: Before restore factory default, you should verify the Current Client is zero. Or else you had better unplug the network cable then click Factory Default.

3.17 Back

This will take you back to the video window.

4 Other Settings

4.1Use Mobile to login

If the camera has been linked to Internet, set the parameters of the camera and router. Make sure the camera can be accessed by domain name and WAN IP.
For example, the WAN IP is183.37.54.137, the domain name is cyjun321.dyndns.org. Then open the mobile IE, enter the following URL, you can login the camera. http://183.37.54.137/mobile.html or http://183.37.54.137/wap.wml or http://cyjun321.dyndns.org/mobile.html or http://cyjun321.dyndns.org/wap.wml .
If the HTTP port num isn't 80, you should add the port num to the URL:
http://183.37.54.137：portnum/mobile.html
or http://cyjun321.dyndns.org：port num/mobile.html

4.2 For MAC OS

The MAC OS can't install the exe application program. If you want to access the camera, you should know the IP or domain name, then enter the url to the IE and access the camera.

5 APPENDIX

5.1 Frequently Asked Questions

NOTE: Any questions you would meet, please check Network connections firstly. Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

5.1.1 I have forgotten the administrator password

To reset the administrator password, you had better unplug the network cable firstly. After that, press and hold down the RESET BUTTON about 10 seconds. Releasing the reset button, the password will turn to the factory default.
Default administrator username: admin password: admin
Default user username: user password: user
Default guest username: guest password: guest

5.1.2 Subnet doesn't match

Check whether your ipcamera in the same subnet of your computer. The step is **Control Panel→Network Connections→**Dbclick **Local Area Connections** → Choose **General→Properties**.(Figure 3.5/3.6) Check subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

5.1.3 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. You can resolve this problem by this way:
Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser→Tool→Internet Proper→Security→Custom Level→ActiveX control and Plug-ins. Three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored. As follows:
Enable: Download unsigned ActiveX controls
Enable: Initialize and script ActiveX controls not marked as safe
Enable: Run ActiveX controls and plug-ins

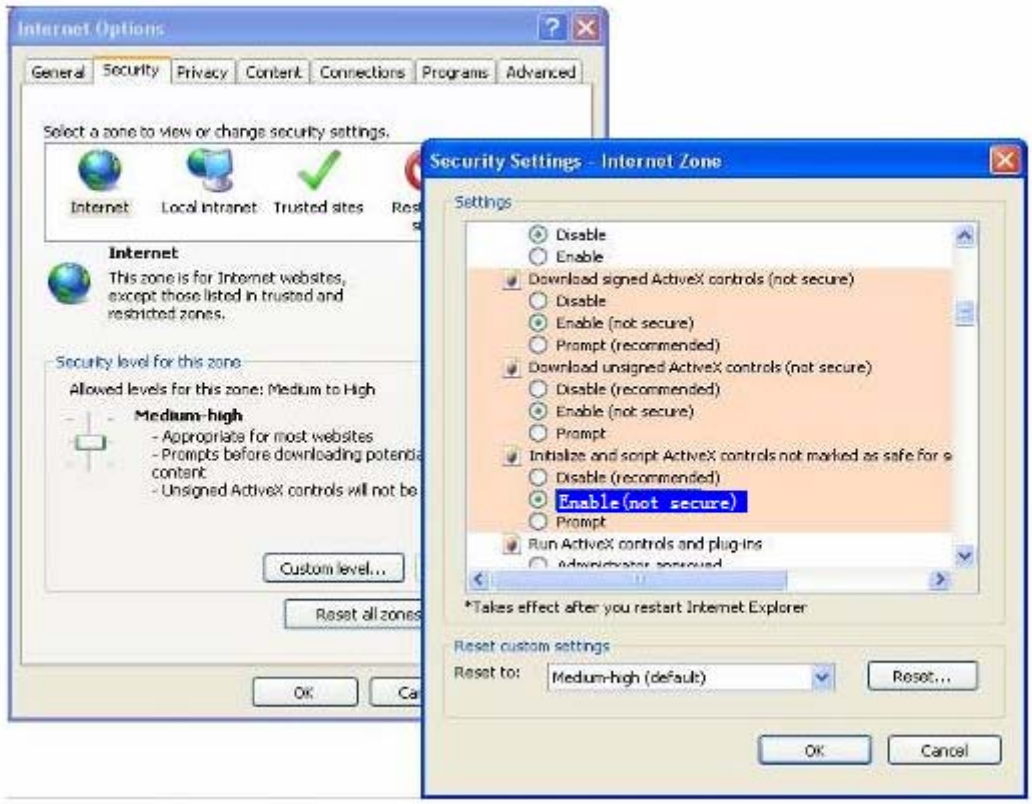

Figure 5.1

If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don't use port 80, use any port between 1024 and 49151.

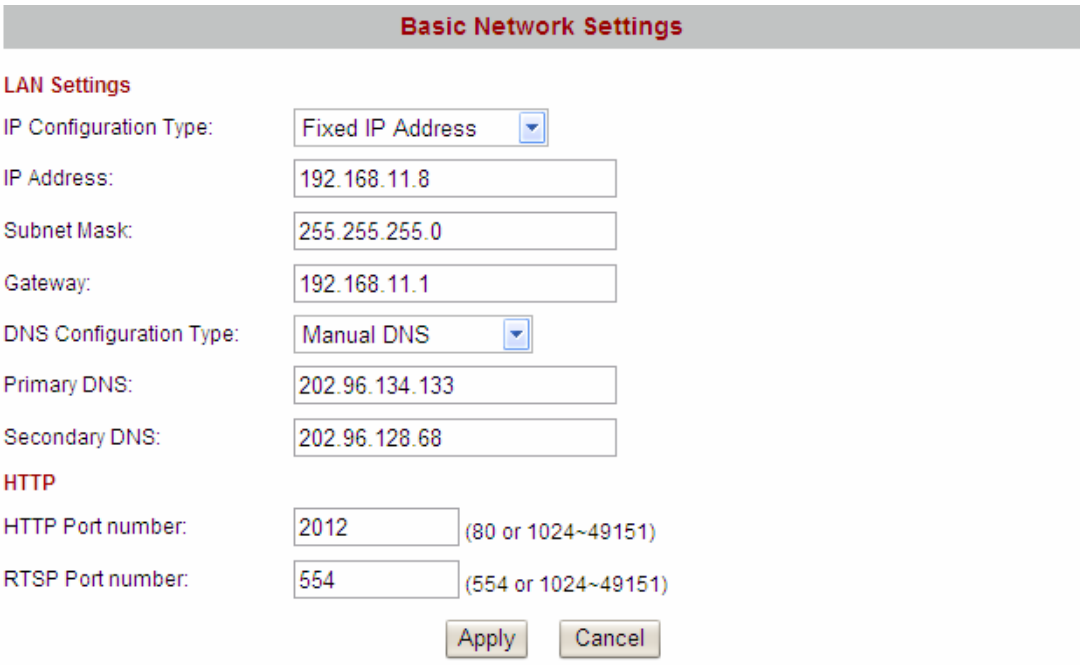

Figure5.2

NOTE: Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you could not see video, please shut down firewall or anti-virus software to try again.

5.1.4 I cannot see the video on Firefox or Safari or Google chrome?

For Firefox, Safari and Google chrome, you should install Quick Time Player as the ActiveX controller, please configure the activex controller as the following picture:
Select Preferences—QuickTime Preferences…

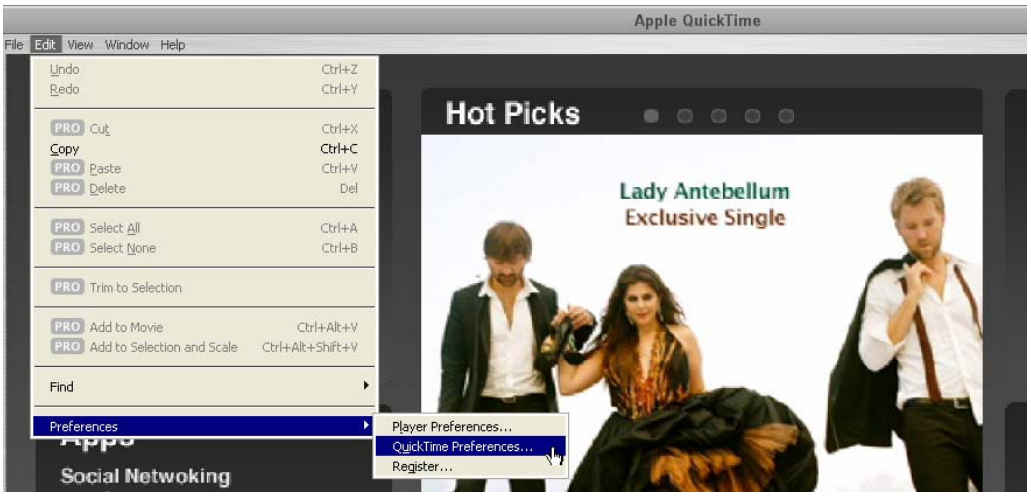

Figure 5.3

Choose HTTP as the transport protocol.

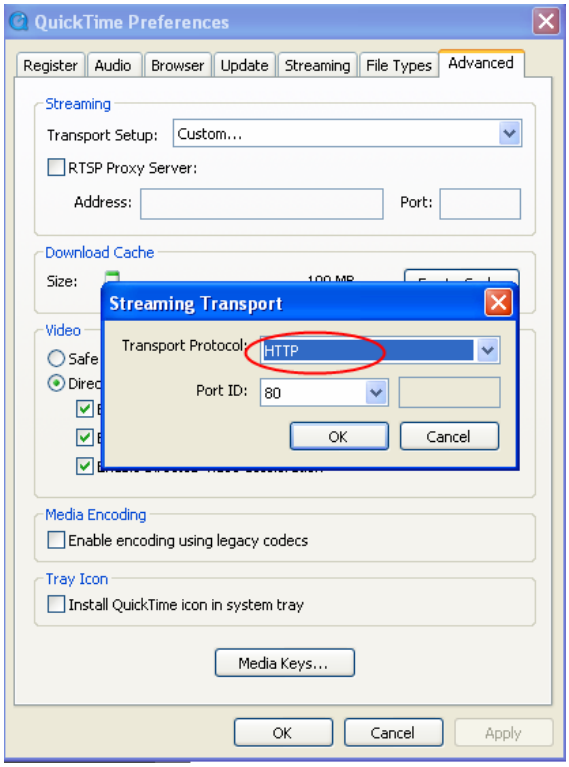

Figure 5.4

Choose Automatic as the Transport Setup, then click OK to save the settings.

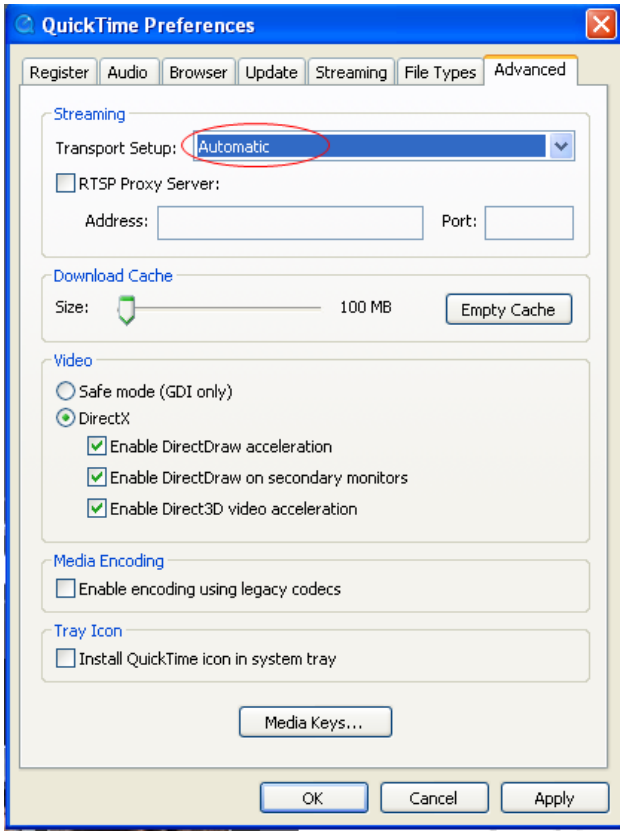

Figure 5.5

5.1.5 Can't access IP camera in internet

There are some reasons:
1 ActiveX controller is not installed correctly (Figure2.10-2.12)
2 The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again. (Figure5.2)
3 Port forwarding is not successful
Check these settings and make sure they are correct.

5.1.6 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be failed to do port forwarding automatically because of firewall or anti-virus software. It also has much relation with router's security settings. So we recommend you do port forwarding manually. You can view your camera in internet successfully after you do port forwarding manually in your router.

5.1.7 Camera can not connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not.
Normally, camera can't connect wireless mainly because of wrong settings.
Make sure broadcast your SSID; use the same encryption for router and camera.

5.2 Default Parameters

Default network Parameters
IP address: obtain dynamically
Subnet mask: obtain dynamically
Gateway: obtain dynamically
DDNS: Disabled
Username and password

Default admin username: admin	Default password: admin
Default user username: user	Default password: user
Default guest username: guest	Default password: guest

5.3 Specifications

Specification		FI8601/FI8601W
Image Sensor	Image Sensor	420TVL 1/3" SONY Color CCD Sensor
	Lens	f :6mm or 8mm or 12mm , F=1.2
	Mini. Illumination	0.1Lux
Audio	Input/Output	Linear Input/Output, which can realize two-way voice the intercom
	Audio Compression	G.711/G.726, Audio sampling Bit rate 128kbps ~ 2048Mbps
Video	Video Formats	Supports NTSC or PAL Formats
	Image Compression	H.264
	Image Frame Rate	25fps（PAL Formats），30fps（NTSC Formats）,Down adjustable
	Resolution	D1 / CIF/ QCIF
	View	H.264 dual streaming
	Image adjust	The brightness, contrast is adjustable
	White balance	Automatic white balance
	Backlight compensation	Automatic backlight compensation
	SNR	>48DB (AGC OFF)
	Night visibility	Φ5mm 36 IR LEDs, Night visibility up to 30 meters
Network	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP、RTSP
	Wireless Standard	WIFI(IEEE802.11b/g/n)
	Support IP address	static IP address, dynamic IP address
Alarm	Alarm detection	The motion detecting, detection threshold settings
	Alarm inform	Support Email、FTP etc alarm inform way
Hardware Interface	POWER Interface	DC 12V/2.0A (EU,US,AU adapter or other types option, Power Consumption ＜8 Watts
	Audio Input/Output Interface	One audio input jack, One audio output jack.
	Reset Buttons	One Reset
	Control Interface	one RS -485 port, support of transparent channel transmission
Environment	Operate Temper	0° ~ 55°C (32°F ~ 131°F)
	Operate Humidity	10% ~ 80% non-condensing
	Storage Temper	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
	Dimension	177X87x76mm
	Net Weight	910g

	Gross Weight	1411g
PC Requirements	CPU	2.0GHZ or above (suggested 3.0GHz)
	Memory Size	256MB or above (suggested 1.0GHz)
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista ,Mac OS
	Browser	IE6 and above version or compatible browser, Firefox, Chrome, Safari or other standard browsers
Software	Upgrade	Upgrade from network
	Application Software	H.264 Camera Client
Certification	CE,FCC	

6 OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered. Please contact your reseller and ask for help first, if they could not resolve your issue, please contact our company.